SEQUENCE LISTING

- (i) APPLICANTS: Xu, Jiangchun Dillon, Davin C.
- (ii) TITLE OF INVENTION: COMPOUNDS FOR IMMUNODIAGNOSIS OF PROSTATE CANCER AND METHODS FOR THEIR USE
 - (iii) NUMBER OF SEQUENCES: 224
 - (iv) CORRESPONDENCE ADDRESS:
 - (A) ADDRESSEE: SEED and BERRY LLP
 - (B) STREET: 6300 Columbia Center, 701 Fifth Avenue
 - (C) CITY: Seattle
 - (D) STATE: WA
 - (E) COUNTRY: USA
 - (F) ZIP: 98104
 - (v) COMPUTER READABLE FORM:
 - (A) MEDIUM TYPE: Floppy disk
 - (B) COMPUTER: IBM PC compatible
 - (C) OPERATING SYSTEM: PC-DOS/MS-DOS
 - (D) SOFTWARE: PatentIn Release #1.0, Version #1.30
 - (vi) CURRENT APPLICATION DATA:
 - (A) APPLICATION NUMBER:
 - (B) FILING DATE: 23-FEB-1998
 - (C) CLASSIFICATION:
 - (viii) ATTORNEY/AGENT INFORMATION:
 - (A) NAME: Maki, David J.
 - (B) REGISTRATION NUMBER: 31,392
 - (C) REFERENCE/DOCKET NUMBER: 210121.428C3
 - (ix) TELECOMMUNICATION INFORMATION:
 - (A) TELEPHONE: (206) 622-4900
 - (B) TELEFAX: (206) 682-6031
- (2) INFORMATION FOR SEQ ID NO:1:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 814 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1:

TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT	TTTTTCACAG	TATAACAGCT	CTTTATTTCT	GTGAGTTCTA	CTAGGAAATC	60
					GAATCAGCTT	120
					AAGACCCTCC	180
					TGGGTTATGT	240

TTTCAGCTCC	ATCCTTGCTG	TGAGTGTCTG	GTGCGTTGTG	CCTCCAGCTT	CTGCTCAGTG	300
CTTCATGGAC	AGTGTCCAGC	ACATGTCACT	CTCCACTCTC	TCAGTGTGGA	TCCACTAGTT	360
CTAGAGCGGC	CGCCACCGCG	GTGGAGCTCC	AGCTTTTGTT	CCCTTTAGTG	AGGGTTAATT	420
GCGCGCTTGG	CGTAATCATG	GTCATAACTG	TTTCCTGTGT	GAAATTGTTA	TCCGCTCACA	480
ATTCCACACA	ACATACGAGC	CGGAAGCATA	AAGTGTAAAG	CCTGGGGTGC	CTAATGAGTG	540
ANCTAACTCA	CATTAATTGC	GTTGCGCTCA	CTGNCCGCTT	TCCAGTCNGG	AAAACTGTCG	600
TGCCAGCTGC	ATTAATGAAT	CGGCCAACGC	NCGGGGAAAA	GCGGTTTGCG	TTTTGGGGGC	660
TCTTCCGCTT	CTCGCTCACT	NANTCCTGCG	CTCGGTCNTT	CGGCTGCGGG	GAACGGTATC	720
ACTCCTCAAA	GGNGGTATTA	CGGTTATCCN	NAAATCNGGG	GATACCCNGG	AAAAAANTTT	780
AACAAAAGGG	CANCAAAGGG	CNGAAACGTA	AAAA			814

(2) INFORMATION FOR SEQ ID NO:2:

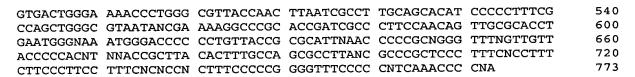
- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 816 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2:

ACAGAAATGT	TGGATGGTGG	AGCACCTTTC	TATACGACTT	ACAGGACAGC	AGATGGGGAA	60
TTCATGGCTG	TTGGAGCAAT	AGAACCCCAG	TTCTACGAGC	TGCTGATCAA	AGGACTTGGA	120
CTAAAGTCTG	ATGAACTTCC	CAATCAGATG	AGCATGGATG	ATTGGCCAGA	AATGAAGAAG	180
AAGTTTGCAG	ATGTATTTGC	AAAGAAGACG	AAGGCAGAGT	GGTGTCAAAT	CTTTGACGGC	240
ACAGATGCCT	GTGTGACTCC	GGTTCTGACT	TTTGAGGAGG	TTGTTCATCA	TGATCACAAC	300
AAGGAACGGG	GCTCGTTTAT	CACCAGTGAG	GAGCAGGACG	TGAGCCCCCG	CCCTGCACCT	360
CTGCTGTTAA	ACACCCCAGC	CATCCCTTCT	TTCAAAAGGG	ATCCACTAGT	TCTAGAAGCG	420
GCCGCCACCG	CGGTGGAGCT	CCAGCTTTTG	TTCCCTTTAG	TGAGGGTTAA	TTGCGCGCTT	480
GGCGTAATCA	TGGTCATAGC	TGTTTCCTGT	GTGAAATTGT	TATCCGCTCA	CAATTCCCCC	540
AACATACGAG	CCGGAACATA	AAGTGTTAAG	CCTGGGGTGC	CTAATGANTG	AGCTAACTCN	600
CATTAATTGC	GTTGCGCTCA	CTGCCCGCTT	TCCAGTCGGG	AAAACTGTCG	TGCCACTGCN	660
TTANTGAATC	NGCCACCCC	CGGGAAAAGG	CGGTTGCNTT	TTGGGCCTCT	TCCGCTTTCC	720
TCGCTCATTG	ATCCTNGCNC	CCGGTCTTCG	GCTGCGGNGA	ACGGTTCACT	CCTCAAAGGC	780
GGTNTNCCGG	TTATCCCCAA	ACNGGGGATA	CCCNGA			816

(2) INFORMATION FOR SEQ ID NO:3:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 773 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:3:

CTTTTGAAAG	AAGGGATGGC	TGGGGTGTTT	AACAGCAGAG	GTGCAGGGCG	GGGGCTCACG	60
				TGTGATCATG		120
TCCTCAAAAG	TCAGAACCGG	AGTCACACAG	GCATCTGTGC	CGTCAAAGAT	TTGACACCAC	180
TCTGCCTTCG	TCTTCTTTGC	AAATACATCT	GCAAACTTCT	TCTTCATTTC	TGGCCAATCA	240
TCCATGCTCA	TCTGATTGGG	AAGTTCATCA	GACTTTAGTC	CANNTCCTTT	GATCAGCAGC	300
TCGTAGAACT	GGGGTTCTAT	TGCTCCAACA	GCCATGAATT	CCCCATCTGC	TGTCCTGTAA	360
GTCGTATAGA	AAGGTGCTCC	ACCATCCAAC	ATGTTCTGTC	CTCGAGGGGG	GGCCCGGTAC	420
CCAATTCGCC	CTATANTGAG	TCGTATTACG	CGCGCTCACT	GGCCGTCGTT	TTACAACGTC	480



(2) INFORMATION FOR SEQ ID NO:4:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 828 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:4:

CCTCCTGAGT CCTAC	TGACC TGTGCTTTCT	GGTGTGGAGT	CCAGGGCTGC	TAGGAAAAGG	60
	GTGTA TGCCAATGTT		GTATAATTTC	GTCCTCTCCT	120
TCGGAACACT GGCTG				ACACACAAAG	180
		AGAGATGGGA			240
			ACTGAGGATA		300
1101.0100			AACATAGCCC	ACGCTGTCCT	360
ACAATGCATG AGGCA			AAGGGGAGGA		420
GNGGGCACTG GGAAG	_			AGGGTTAATT	480
011200000	CCGCG GTGGANCTCC		GAAATTGTTA		540
0000001100 0001	TCATG GTCATANCTN			TAATGANTGA	600
ATTCCACACA ACATA		AANTGTAAAC			660
CTAACTCACA TTAAT		GCCCGCTTTC		ACCTGTCTTG	720
CCNCTTGCAT TNATG	BAATCN GCCAACCCC			TGGGCGCTCT	. – -
TCCGCTTCCT CNCTC	CANTTA NTCCCTNCNC			AAACCGGTTC	780
ACCNCCTCCA AAGGG	GGTAT TCCGGTTTC	CCNAATCCGG	GGANANCC		828

(2) INFORMATION FOR SEQ ID NO:5:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 834 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:5:

TTTTTTTTTT	TTTTTACTGA	TAGATGGAAT	TTATTAAGCT	TTTCACATGT	GATAGCACAT	60
AGTTTTAATT				ATCAAGAATG		120
ATTTTATAAC	AATCAACACC	TGTGGCTTTT	AAAATTTGGT	TTTCATAAGA	TAATTTATAC	180
TGAAGTAAAT	CTAGCCATGC	TTTTAAAAAA	TGCTTTAGGT	CACTCCAAGC	TTGGCAGTTA	240
				AAATAACAAA		300
TAGGCCATAA	TCATATACAG	TATAAGGAAA	AGGTGGTAGT	GTTGAGTAAG	CAGTTATTAG	360
AATAGAATAC	CTTGGCCTCT	ATGCAAATAT	GTCTAGACAC	TTTGATTCAC	TCAGCCCTGA	420
САТТСАСТТТ	TCAAAGTAGG	AGACAGGTTC	TACAGTATCA	TTTTACAGTT	TCCAACACAT	480
TGAAAACAAG	TAGAAAATGA	TGAGTTGATT	TTTATTAATG	CATTACATCC	TCAAGAGTTA	540
TCACCAACCC	CTCAGTTATA	AAAAATTTTC	AAGTTATATT	AGTCATATAA	CTTGGTGTGC	600
מ מ מ דידידי מ דידי	ΤΤΔGΤGCΤΔΔ	ATGGATTAAG	TGAAGACAAC	AATGGTCCCC	TAATGTGATT	660
CATATTGGTC	ΔΤΤΤΤΤΤΑΟ	GCTTCTAAAT	CTNAACTTTC	AGGCTTTTGA	ACTGGAACAT	720
TCMATMACAG	TGTTCCANAG	TTNCAACCTA	CTGGAACATT	ACAGTGTGCT	TGATTCAAAA	780
TOWNINACAO	ICIICCHINO			·		

TGTTATTTTG TTAAAAATTA AATTTTAACC TGGTGGAAAA ATAATTTGAA ATNA 834 (2) INFORMATION FOR SEQ ID NO:6: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 818 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:6: TTTTTTTTT TTTTTTTT AAGACCCTCA TCAATAGATG GAGACATACA GAAATAGTCA AACCACATCT ACAAAATGCC AGTATCAGGC GGCGGCTTCG AAGCCAAAGT GATGTTTGGA 120 TGTAAAGTGA AATATTAGTT GGCGGATGAA GCAGATAGTG AGGAAAGTTG AGCCAATAAT 180 GACGTGAAGT CCGTGGAAGC CTGTGGCTAC AAAAAATGTT GAGCCGTAGA TGCCGTCGGA 240 AATGGTGAAG GGAGACTCGA AGTACTCTGA GGCTTGTAGG AGGGTAAAAT AGAGACCCAG 300 TAAAATTGTA ATAAGCAGTG CTTGAATTAT TTGGTTTCGG TTGTTTTCTA TTAGACTATG 360 GTGAGCTCAG GTGATTGATA CTCCTGATGC GAGTAATACG GATGTGTTTA GGAGTGGGAC 420 TTCTAGGGGA TTTAGCGGGG TGATGCCTGT TGGGGGCCAG TGCCCTCCTA GTTGGGGGGT 480 AGGGGCTAGG CTGGAGTGGT AAAAGGCTCA GAAAAATCCT GCGAAGAAAA AAACTTCTGA 540 GGTAATAAAT AGGATTATCC CGTATCGAAG GCCTTTTTGG ACAGGTGGTG TGTGGTGGCC TTGGTATGTG CTTTCTCGTG TTACATCGCG CCATCATTGG TATATGGTTA GTGTGTTGGG 660 TTANTANGGC CTANTATGAA GAACTTTTGG ANTGGAATTA AATCAATNGC TTGGCCGGAA 720 GTCATTANGA NGGCTNAAAA GGCCCTGTTA NGGGTCTGGG CTNGGTTTTA CCCNACCCAT 780 818 GGAATNCNCC CCCCGGACNA NTGNATCCCT ATTCTTAA (2) INFORMATION FOR SEQ ID NO:7: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 817 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:7: 60 TTTTTTTTT TTTTTTTTT TGGCTCTAGA GGGGGTAGAG GGGGTGCTAT AGGGTAAATA CGGGCCCTAT TTCAAAGATT TTTAGGGGAA TTAATTCTAG GACGATGGGT ATGAAACTGT 120 180 GGTTTGCTCC ACAGATTTCA GAGCATTGAC CGTAGTATAC CCCCGGTCGT GTAGCGGTGA AAGTGGTTTG GTTTAGACGT CCGGGAATTG CATCTGTTTT TAAGCCTAAT GTGGGGACAG 240

CTCATGAGTG CAAGACGTCT TGTGATGTAA TTATTATACN AATGGGGGCT TCAATCGGGA

GTACTACTCG ATTGTCAACG TCAAGGAGTC GCAGGTCGCC TGGTTCTAGG AATAATGGGG

GAAGTATGTA GGAATTGAAG ATTAATCCGC CGTAGTCGGT GTTCTCCTAG GTTCAATACC

ATTGGTGGCC AATTGATTTG ATGGTAAGGG GAGGGATCGT TGAACTCGTC TGTTATGTAA

AGGATNCCTT NGGGATGGGA AGGCNATNAA GGACTANGGA TNAATGGCGG GCANGATATT

TCAAACNGTC TCTANTTCCT GAAACGTCTG AAATGTTAAT AANAATTAAN TTTNGTTATT

GAATNTTNNG GAAAAGGGCT TACAGGACTA GAAACCAAAT ANGAAAANTA ATNNTAANGG

CNTTATCNTN AAAGGTNATA ACCNCTCCTA TNATCCCACC CAATNGNATT CCCCACNCNN

ACNATTGGAT NCCCCANTTC CANAAANGGC CNCCCCCGG TGNANNCCNC CTTTTGTTCC

300

360

420

480

540

600

660

720

780 817

(2) INFORMATION FOR SEQ ID NO:8:

CTTNANTGAN GGTTATTCNC CCCTNGCNTT ATCANCC

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 799 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:8:

CATTTCCGGG TTTACTTTCT	AAGGAAAGCC	GAGCGGAAGC	TGCTAACGTG	GGAATCGGTG	60
	GGCACGCGCT	AGGGACAAGC	GGGAGAGCGA	CTCCGAGCGT	120
CTGAAGCGCA CGTCCCAGAA	GGTGGACTTG	GCACTGAAAC	AGCTGGGACA	CATCCGCGAG	180
TACGAACAGC GCCTGAAAGT	GCTGGAGCGG	GAGGTCCAGC	AGTGTAGCCG	CGTCCTGGGG	240
		TGCTGCCCCC	ANGTGGGCCG	CCACCCCTG	300
		TGGCGGACTT	CAAGGANAAC	CCCCACANGG	360
GGATTTTGCT CCTANANTAA	GGCTCATCTG	GGCCTCGGCC	CCCCCACCTG	GTTGGCCTTG	420
TCTTTGANGT GAGCCCCATG	TCCATCTGGG	CCACTGTCNG	GACCACCTTT	NGGGAGTGTT	480
CTCCTTACAA CCACANNATG	CCCGGCTCCT	CCCGGAAACC	ANTCCCANCC	TGNGAAGGAT	540
CAAGNCCTGN ATCCACTNNT	NCTANAACCG	GCCNCCNCCG	CNGTGGAACC	CNCCTTNTGT	600
TCCTTTCNT TNAGGGTTAA	TNNCGCCTTG	GCCTTNCCAN	NGTCCTNCNC	NTTTTCCNNT	660
GTTNAAATTG TTANGCNCCC		CNNCNNCNAN	CCCGACCCNN	ANNTTNNANN	720
NCCTGGGGGT NCCNNCNGAT		NCCCTNTANT	TGCNTTNGGG	NNCNNTGCCC	780
CTTTCCCTCT NGGGANNCG	10.1000				799
6111666161					

- (2) INFORMATION FOR SEQ ID NO:9:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 801 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:9:

ACGCCTTGAT	CCTCCCAGGC	TGGGACTGGT	TCTGGGAGGA	GCCGGGCATG	CTGTGGTTTG	60
	ACTCCCAAAG		CAGTGGCCCA		GGGCTCACCT	120
CAAGGACAAG	GCCACCAGGT	•	AAGCCCACAT	GATCCTTACT	CTATGAGCAA	180
AATCCCCTGT	GGGGGCTTCT		CGCCANCAGG	GCTCAGTCTT	TGGACCCANG	240
CAGGTCATGG	GGTTGTNGNC	CAACTGGGGG		AAANGGCNCA	GGGCCTCNGN	300
0			GACCTCCCNC	TCCACCACTT	TCATGCGCTG	360
	711.011.00000	CCANCTGTTT	CNGTGCCNAC	TCCANCTTCT	NGGACGTGCG	420
TTCNTACCCG	• • • • • • • • • • • • • • • • • • • •		TGTCCCTATC	CACGTNCCAN	CAACAAATTT	480
•				NNCGNGCTTC	CTTNTAAAAG	540
CNCCNTANTG	011001111111	CCCAAAGGGG	GGGGGCCNGG	TACCCAACTN	CCCCCTNATA	600
	CGGAAAATNC	GNCTCNATGG	ANCONTCONT	TTTAANNACN	TTCTNAACTT	660
GCTGAANTCC		CCCCCNTTAA	TCCCNCCTTG	CNANGNNCNT	CCCCCNNTCC	720
GGGAANANCC		CNAAAAAGGC			CCTCANTTCG	780
NCCCNNNTNG	GCNTNTNANN	-	CCIMINANCAA	101001		801
CCANCCCTCG	AAATCGGCCN	C				

- (2) INFORMATION FOR SEQ ID NO:10:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 789 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single

- (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:10:

CAGTCTATNT	GGCCAGTGTG	GCAGCTTTCC	CTGTGGCTGC	CGGTGCCACA	TGCCTGTCCC	60
ACAGTGTGGC	CGTGGTGACA	GCTTCAGCCG	CCCTCACCGG	GTTCACCTTC	TCAGCCCTGC	120
AGATCCTGCC	CTACACACTG	GCCTCCCTCT	ACCACCGGGA	GAAGCAGGTG	TTCCTGCCCA	180
	GGACACTGGA		GTGAGGACAG	CCTGATGACC	AGCTTCCTGC	240
CAGGCCCTAA	GCCTGGAGCT	CCCTTCCCTA	ATGGACACGT	GGGTGCTGGA	GGCAGTGGCC	300
TGCTCCCACC	TCCACCCGCG	CTCTGCGGGG	CCTCTGCCTG	TGATGTCTCC	GTACGTGTGG	360
TGGTGGGTGA	GCCCACCGAN	GCCAGGGTGG	TTCCGGGCCG	GGGCATCTGC	CTGGACCTCG	420
CCATCCTGGA	TAGTGCTTCC			TCCCTGTTTA		480
	AGCCAGTCTG	TCACTGCCTA				540
CCCATTTACT	TTGCTACACA	GGTANTATTT	GACAAGAACG	ANTTGGCCAA	ATACTCAGCG	600
TTAAAAAATT	CCAGCAACAT	TGGGGGTGGA	AGGCCTGCCT	CACTGGGTCC	AACTCCCCGC	660
TCCTGTTAAC	CCCATGGGGC	TGCCGGCTTG	000000		CCAAANTNAT	720
GTGGCTCTCT	GCTGCCACCT	GTTGCTGGCT	GAAGTGCNTA	CNGCNCANCT	NGGGGGGTNG	780
GGNGTTCCC						789

- (2) INFORMATION FOR SEQ ID NO:11:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 772 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:11:

COON CCCTNC	ርር እ እ ጥጥ ጥጥ Δ	GACACCAACA	CAGAAAAGCT	AGCAATGGAT	TCCCTTCTAC	60
MMMCGCCIAC	AAAMAAATATTA	AATATTTAAA	TGCCTGTGTC	TCTGTGATGG	CAACAGAAGG	120
TTTGTTAAAT	AAATAAGITA	TAAAAGGTAA	CACCCCCCTC	GATCAGCAAA	AAGACAGTGC	180
			0	GGACTCTTCC		240
TGTGGGCTGA	GGGGACCTGG					300
ACTTTCATAT	GTTCAAATCC	CATGGAGGAG	TGTTTCATCC	TAGAAACICC	TO A CTTC A CTT	360
CTACATTAAA	CGAAGCTGCA	GGTTAAGGGG	CTTANAGATG	GGAAACCAGG	TGACTGAGTT	420
TATTCAGCTC	CCAAAAACCC	TTCTCTAGGT	GTGTCTCAAC	TAGGAGGCTA	GCTGTTAACC	
CTGAGCCTGG	GTAATCCACC	TGCAGAGTCC	CCGCATTCCA	GTGCATGGAA	CCCTTCTGGC	480
CTCCCTGTAT	AAGTCCAGAC	TGAAACCCCC	TTGGAAGGNC	TCCAGTCAGG	CAGCCCTANA	540
AACTCCCCAA	λλλασαδάδα	GACGCCCCAN	CCCCCAGCTG	TGCANCTACG	CACCTCAACA	600
AACTGGGGAA	CCACCAAAAA	AACCACTTTA	CTTTGGCACA	AACAAAAACT	NGGGGGGGCA	660
GCACAGGGTG	GCAGCAAAAA	GTTAACAGGA	ANCNGGGNAA	CNTGGAACCC	AATTNAGGCA	720
ACCCCGGCAC	CCCNANGGGG	GITAACAGGA	MINCHOGGINAA	CTAAATTNTT	тС	772
GGCCCNCCAC	CCCNAATNTT	GCTGGGAAAT	TITICCICCC	CIMMAIINII	10	

- (2) INFORMATION FOR SEQ ID NO:12:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 751 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:12:

GCCCCAATTC	CAGCTGCCAC	ACCACCCACG	GTGACTGCAT	TAGTTCGGAT	GTCATACAAA	60
AGCTGATTGA	AGCAACCCTC	TACTTTTTGG	TCGTGAGCCT	TTTGCTTGGT	GCAGGTTTCA	120
TTGGCTGTGT	TGGTGACGTT	GTCATTGCAA	CAGAATGGGG	GAAAGGCACT	GTTCTCTTTG	180
AAGTANGGTG	AGTCCTCAAA	ATCCGTATAG	TTGGTGAAGC	CACAGCACTT	GAGCCCTTTC	240
ATGGTGGTGT	TCCACACTTG	AGTGAAGTCT	TCCTGGGAAC	CATAATCTTT	CTTGATGGCA	300
GGCACTACCA	GCAACGTCAG	GGAAGTGCTC	AGCCATTGTG	GTGTACACCA	AGGCGACCAC	360
AGCAGCTGCN	ACCTCAGCAA	TGAAGATGAN	GAGGANGATG	AAGAAGAACG	TCNCGAGGGC	420
ACACTTGCTC	TCAGTCTTAN	CACCATANCA	GCCCNTGAAA	ACCAANANCA	AAGACCACNA	480
CNCCGGCTGC	GATGAAGAAA	TNACCCCNCG	TTGACAAACT	TGCATGGCAC	TGGGANCCAC	540
AGTGGCCCNA	AAAATCTTCA	AAAAGGATGC	CCCATCNATT	GACCCCCCAA	ATGCCCACTG	600
CCAACAGGGG	CTGCCCCACN	CNCNNAACGA	TGANCCNATT	GNACAAGATC	TNCNTGGTCT	660
TNATNAACNT	GAACCCTGCN	TNGTGGCTCC	TGTTCAGGNC	CNNGGCCTGA	CTTCTNAANN	720
AANGAACTCN	GAAGNCCCCA	CNGGANANNC	G .			751

(2) INFORMATION FOR SEQ ID NO:13:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 729 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:13:

GAGCCAGGCG	TCCCTCTGCC	TGCCCACTCA	GTGGCAACAC	CCGGGAGCTG	TTTTGTCCTT	60
				AAGANCCCTG		120
				${\tt TCTTCAATTT}$		180
				CAATCGATGG		240
				TTGTCAACGT		300
				TGGGCTGCTA		360
ACTGAGAGCA	AGTGTGCCCT	CGTGACGTTC	TTCTTCATCC	TCCTCCTCAT	CTTCATTGCT	420
				GGCTGAGCAC		480
TCCTCCTAAT	GCCTGCCATC	AANAAAAGAT	TATGGGTTCC	CAGGAANACT	TCACTCAAGT	540
CTTCCAACAC	CACCATGAAA	GGGCTCAAGT	GCTGTGGCTT	CNNCCAACTA	TACGGATTTT	600
CANCANTCAC	CTACTTCAAA	GAAAANAGTG	CCTTTCCCCC	ATTTCTGTTG	CAATTGACAA	660
ACCTCCCCAA	CACACCCAAT	TGAAAACCTG	CACCCAACCC	AAANGGGTCC	CCAACCANAA	720
ACGICCCCAA	CACAGCCAAI	10,111McC10				729
MILINAMOGG						

(2) INFORMATION FOR SEQ ID NO:14:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 816 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:14:

TGCTCTTCCT	CAAAGTTGTT	CTTGTTGCCA	TAACAACCAC	CATAGGTAAA	GCGGGCGCAG	60
ТСТТСССТСА	AGGGGTTGTA	GTACCAGCGC	GGGATGCTCT	CCTTGCAGAG	TCCTGTGTCT	120
CCCACCTCCA	CCCACTCCCC	TTTGTCACTG	GGGAAATGGA	TGCGCTGGAG	CTCGTCAAAG	180
GGCAGGICCA	AMMERICACIO	CCCACCCTCG	TCCGACGCGT	CGGGGCAGTT	GGGGGTGTCT	240
CCACTCGTGT	ATTITICACA	GGCAGCCICG	CCOACCCC	ACCCCAACTC	CCTCCCCTCA	300
TCACACTCCA	GGAAACTGTC	NATGCAGCAG	CCATIGCIGC	AGCGGAACIG	GGTGGGCTGA	500

TGANCCCCAN	ANCTGCCTCT	ATGGCGCCTT CAAANGCCCC TTNTTCTTGT	ACCTTGCACA	CCCCGACAGG	CTAGAATGGA	360 420 480
GCANATCTGC CAANCTTGTT	TCCGNGGGGG TGGATNCGAA	TCNTANTACC GCNATAATCT GTCCTCNTGG	ANCGTGGGAA NCTNTTCTGC	AAGAACCCCA TTGGTGGACA	GGCNGCGAAC GCACCANTNA	540 600 660
GGGACAAGGT	AANTNGCCNT	CCTTTNAATT NCCGTGTTCC	CCCNANCNTN	CCCCCTGGTT	TGGGGTTTTN	720 780
CACAACCCTN	CCCCACCCAC	GGGTTCNGNT	GGTTNG			816

(2) INFORMATION FOR SEQ ID NO:15:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 783 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:15:

CCAAGGCCTG	GGCAGGCATA	NACTTGAAGG	TACAACCCCA	GGAACCCCTG	GTGCTGAAGG	60
ATGTGGAAAA	CACAGATTGG	CGCCTACTGC	GGGGTGACAC	GGATGTCAGG	GTAGAGAGGA	120
AAGACCCAAA	CCAGGTGGAA	CTGTGGGGAC	TCAAGGAANG	CACCTACCTG	TTCCAGCTGA	180
CAGTGACTAG	CTCAGACCAC	CCAGAGGACA	CGGCCAACGT	CACAGTCACT	GTGCTGTCCA	240
CCAAGCAGAC	AGAAGACTAC	TGCCTCGCAT	CCAACAANGT	GGGTCGCTGC	CGGGGCTCTT	300
		CCCACGGAGC			TATGGAGGCT	360
GCTTGGGCAA	CAAGAACAAC	TACCTTCGGG	AAGAAGAGTG	CATTCTANCC	TGTCNGGGTG	420
TGCAAGGTGG	GCCTTTGANA	NGCANCTCTG	GGGCTCANGC	GACTTTCCCC	CAGGGCCCCT	480
CCATGGAAAG	GCGCCATCCA	NTGTTCTCTG	GCACCTGTCA	GCCCACCCAG	TTCCGCTGCA	540
NCAATGGCTG	CTGCATCNAC	ANTTTCCTNG	AATTGTGACA	ACACCCCCA	NTGCCCCCAA	600
CCCTCCCAAC	AAAGCTTCCC	TGTTNAAAAA	TACNCCANTT	GGCTTTTNAC	AAACNCCCGG	660
CNCCTCCNTT	TTCCCCNNTN	AACAAAGGGC	NCTNGCNTTT	GAACTGCCCN	AACCCNGGAA	720
TCTNCCNNGG	AAAAANTNCC	CCCCTGGTT	CCTNNAANCC	CCTCCNCNAA	ANCTNCCCCC	780
CCC						783

- (2) INFORMATION FOR SEQ ID NO:16:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 801 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:16:

GCCCCAATTC	CAGCTGCCAC	ACCACCCACG	GTGACTGCAT	TAGTTCGGAT	GTCATACAAA	60
AGCTGATTGA	AGCAACCCTC	TACTTTTTGG	TCGTGAGCCT	TTTGCTTGGT	GCAGGTTTCA	120
TTGGCTGTGT	TGGTGACGTT	GTCATTGCAA	CAGAATGGGG	GAAAGGCACT	GTTCTCTTTG	180
AAGTAGGGTG	AGTCCTCAAA	ATCCGTATAG	TTGGTGAAGC	CACAGCACTT	GAGCCCTTTC	240
ATGGTGGTGT	TCCACACTTG	AGTGAAGTCT	TCCTGGGAAC	CATAATCTTT	CTTGATGGCA	300
GGCACTACCA	GCAACGTCAG	GAAGTGCTCA	GCCATTGTGG	TGTACACCAA	GGCGACCACA	360
GCAGCTGCAA	CCTCAGCAAT	GAAGATGAGG	AGGAGGATGA	AGAAGAACGT	CNCGAGGGCA	420
CACTTGCTCT	CCGTCTTAGC	ACCATAGCAG	CCCANGAAAC	CAAGAGCAAA	GACCACAACG	480
CCNGCTGCGA	ATGAAAGAAA	NTACCCACGT	TGACAAACTG	CATGGCCACT	GGACGACAGT	540

TGGCCCGAAN	ATCTTCAGAA	AAGGGATGCC	CCATCGATTG	AACACCCANA	TGCCCACTGC	600
CNACAGGGCT	GCNCCNCNCN	GAAAGAATGA	GCCATTGAAG	AAGGATCNTC	NTGGTCTTAA	660
TGAACTGAAA	CCNTGCATGG	TGGCCCCTGT	TCAGGGCTCT	TGGCAGTGAA	TTCTGANAAA	720
AAGGAACNGC	NTNAGCCCCC	CCAAANGANA	AAACACCCCC	GGGTGTTGCC	CTGAATTGGC	780
GGCCAAGGAN	CCCTGCCCCN	G				801

- (2) INFORMATION FOR SEQ ID NO:17:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 740 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:17:

GTGAGAGCCA	GGCGTCCCTC	TGCCTGCCCA	CTCAGTGGCA	ACACCCGGGA	GCTGTTTTGT	60
CCTTTGTGGA	GCCTCAGCAG	TTCCCTCTTT	CAGAACTCAC	TGCCAAGAGC	CCTGAACAGG	120
AGCCACCATG	CAGTGCTTCA	GCTTCATTAA	GACCATGATG	ATCCTCTTCA	ATTTGCTCAT	180
CTTTCTGTGT	GGTGCAGCCC	TGTTGGCAGT	GGGCATCTGG	GTGTCAATCG	ATGGGGCATC	240
CTTTCTGAAG	ATCTTCGGGC	CACTGTCGTC	CAGTGCCATG	CAGTTTGTCA	ACGTGGGCTA	300
CTTCCTCATC	GCAGCCGGCG	TTGTGGTCTT	TGCTCTTGGT	TTCCTGGGCT	GCTATGGTGC	360
				ATCCTCCTCC		420
TGCTGAAGTT	GCAGCTGCTG	TGGTCGCCTT	GGTGTACACC	ACAATGGCTG	AACCATTCCT	480
GACGTTGCTG	GTANTGCCTG	CCATCAANAA	AGATTATGGG	TTCCCAGGAA	AAATTCACTC	540
AANTNTGGAA	CACCNCCATG	AAAAGGGCTC	CAATTTCTGN	TGGCTTCCCC	AACTATACCG	600
GAATTTTGAA	AGANTCNCCC	TACTTCCAAA	AAAAAANANT	TGCCTTTNCC	CCCNTTCTGT	660
TGCAATGAAA	ACNTCCCAAN	ACNGCCAATN	AAAACCTGCC	CNNNCAAAAA	GGNTCNCAAA	720
CAAAAAAANT	NNAAGGGTTN					740

- (2) INFORMATION FOR SEQ ID NO:18:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 802 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:18:

CCGCTGGTTG	CGCTGGTCCA	GNGNAGCCAC	GAAGCACGTC	AGCATACACA	GCCTCAATCA	60
CAAGGTCTTC	CAGCTGCCGC	ACATTACGCA	GGGCAAGAGC	CTCCAGCAAC	ACTGCATATG	120
GGATACACTT	TACTTTAGCA	GCCAGGGTGA	CAACTGAGAG	GTGTCGAAGC	TTATTCTTCT	180
GAGCCTCTGT	TAGTGGAGGA	AGATTCCGGG	CTTCAGCTAA	GTAGTCAGCG	TATGTCCCAT	240
AAGCAAACAC	TGTGAGCAGC	CGGAAGGTAG	AGGCAAAGTC	ACTCTCAGCC	AGCTCTCTAA	300
CATTGGGCAT	GTCCAGCAGT	TCTCCAAACA	CGTAGACACC	AGNGGCCTCC	AGCACCTGAT	360
GGATGAGTGT	GGCCAGCGCT	GCCCCCTTGG	CCGACTTGGC	TAGGAGCAGA	AATTGCTCCT	420
GGTTCTGCCC	TGTCACCTTC	ACTTCCGCAC	TCATCACTGC	ACTGAGTGTG	GGGGACTTGG	480
GCTCAGGATG	TCCAGAGACG	TGGTTCCGCC	CCCTCNCTTA	ATGACACCGN	CCANNCAACC	540
GTCGGCTCCC	GCCGANTGNG	TTCGTCGTNC	CTGGGTCAGG	GTCTGCTGGC	CNCTACTTGC	600
AANCTTCGTC	NGGCCCATGG	AATTCACCNC	ACCGGAACTN	GTANGATCCA	CTNNTTCTAT	660
AACCGGNCGC	CACCGCNNNT	GGAACTCCAC	TCTTNTTNCC	TTTACTTGAG	GGTTAAGGTC	720
ACCCTTNNCG	TTACCTTGGT	CCAAACCNTN	CCNTGTGTCG	ANATNGTNAA	TCNGGNCCNA	780
TNCCANCCNC	ATANGAAGCC	NG				802

(2) INFORMATION FOR SEQ ID NO:19:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 731 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:19:

CNAAGCTTCC AGGTNACGGG	CCGCNAANCC	TGACCCNAGG	TANCANAANG	CAGNCNGCGG	60
GAGCCCACCG TCACGNGGNG				CNCTGGACNT	120
CNTGACCCCA ACTCCCCNCC	NCNCANTGCA	GTGATGAGTG	CAGAACTGAA	GGTNACGTGG	180
CAGGAACCAA GANCAAANNO	TGCTCCNNTC	CAAGTCGGCN	NAGGGGGCGG	GGCTGGCCAC	240
GCNCATCCNT CNAGTGCTGN			TGTTTGGAGA	ACNGCNNNGA	300
	NGGCNGAGAG		TCTCCCTTCC	GGCTGCGCAN	360
CGNGTNTGCT TAGNGGACAT	AACCTGACTA	CTTAACTGAA	CCCNNGAATC	TNCCNCCCCT	420
CCACTAAGCT CAGAACAAAA	AACTTCGACA	CCACTCANTT	GTCACCTGNC	TGCTCAAGTA	480
AAGTGTACCC CATNCCCAAT				TCGGTCCTGG	540
	TATGTTTCTG	ACTGCCTCTT	GCTCCCTGNA	ACAANCNACC	600
CNNCNNTCCA AGGGGGGGNC	GGCCCCCAAT	CCCCCAACC	NTNAATTNAN	TTTANCCCCN	660
CCCCCNGGCC CGGCCTTTTA	CNANCNTCNN	NNACNGGGNA	AAACCNNNGC	TTTNCCCAAC	720
NNAATCCNCC T					731

- (2) INFORMATION FOR SEQ ID NO:20:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 754 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:20:

փանանանարան	TTTTTTTT	TAAAAACCCC	CTCCATTNAA	TGNAAACTTC	CGAAATTGTC	60
CAACCCCCTC	NTCCAAATNN		GNGGGGGTTC		TTANNTTTGG	120
	AAATNTTNNT		ANCCNAATGT	NANGAAAGTT	NAACCCANTA	180
		CCNGTNGNTT			ANTCCCTCCG	240
		AANTTCTCNT				300
NNCCAATTGT	TTTTNGCCAC	GCCTGAATTA	ATTGGNTTCC	GNTGTTTTCC	AANAAATTN	360
GGNNANCCCC	GGTTANTNAA	TCCCCCCNNC	CCCAATTATA	CCGANTTTTT	TTNGAATTGG	420
GANCCCNCGG	GAATTAACGG	GGNNNNTCCC	TNTTGGGGGG	CNGGNNCCCC	CCCCNTCGGG	480
GGTTNGGGNC	AGGNCNNAAT	TGTTTAAGGG	TCCGAAAAAT	CCCTCCNAGA	AAAAAANCTC	540
		NCCCCCCCC				600
		CCCTNTTNCC				660
		AAGANCTTTN		TTAAATCCNT		720
AGTCCNTTGN	AGGGNTAAAN	GGCCCCCTNN	CGGG			754

- (2) INFORMATION FOR SEQ ID NO:21:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 755 base pairs
 - (B) TYPE: nucleic acid

(C) STRANDEDNESS: single

(D) TOPOLOGY: linear

- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:21:

ATCANCCCAT	GACCCCNAAC	NNGGGACCNC	TCANCCGGNC	NNNCNACCNC	CGGCCNATCA	60
NNGTNAGNNC	ACTNCNNTTN	NATCACNCCC	CNCCNACTAC	GCCCNCNANC	CNACGCNCTA	120
NNCANATNCC	ACTGANNGCG	CGANGTNGAN	NGAGAAANCT	NATACCANAG	NCACCANACN	180
CCAGCTGTCC	NANAANGCCT	NNNATACNGG	NNNATCCAAT	NTGNANCCTC	CNAAGTATTN	240
NNCNNCANAT	GATTTTCCTN	ANCCGATTAC	CCNTNCCCCC	TANCCCCTCC	CCCCCAACNA	300
CGAAGGCNCT	GGNCCNAAGG	NNGCGNCNCC	CCGCTAGNTC	CCCNNCAAGT	CNCNCNCCTA	360
AACTCANCCN	NATTACNCGC	TTCNTGAGTA	TCACTCCCCG	AATCTCACCC	TACTCAACTC	420
AAAAANATCN	GATACAAAAT	AATNCAAGCC	TGNTTATNAC	ACTNTGACTG	GGTCTCTATT	480
TTAGNGGTCC	NTNAANCNTC	CTAATACTTC	CAGTCTNCCT	TCNCCAATTT	CCNAANGGCT	540
CTTTCNGACA	GCATNTTTTG	GTTCCCNNTT	GGGTTCTTAN	NGAATTGCCC	TTCNTNGAAC	600
GGGCTCNTCT	TTTCCTTCGG	TTANCCTGGN	TTCNNCCGGC	CAGTTATTAT	TTCCCNTTTT	660
AAATTCNTNC	CNTTTANTTT	TGGCNTTCNA	AACCCCCGGC	CTTGAAAACG	GCCCCCTGGT	720
AAAAGGTTGT	TTTGANAAAA	TTTTTGTTTT	GTTCC			755

- (2) INFORMATION FOR SEQ ID NO:22:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 849 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:22:

		my amagmaa.	GGTAGAGGCT	TACTACAANT	GTGAANACGT	60
TTTTTTTTT	TTTTTANGTG	TNGTCGTGCA	-			-
ACGCTNGGAN	TAANGCGACC	CGANTTCTAG	GANNCNCCCT	AAAATCANAC	TGTGAAGATN	120
ATCCTGNNNA	CGGAANGGTC	ACCGGNNGAT	NNTGCTAGGG	TGNCCNCTCC	CANNNCNTTN	180
CATAACTCNG	NGGCCCTGCC	CACCACCTTC	GGCGGCCCNG	NGNCCGGGCC	CGGGTCATTN	240
GNNTTAACCN	CACTNNGCNA	NCGGTTTCCN	NCCCCNNCNG	ACCCNGGCGA	TCCGGGGTNC	300
TCTGTCTTCC	CCTGNAGNCN	ANAAANTGGG	CCNCGGNCCC	CTTTACCCCT	NNACAAGCCA	360
CNGCCNTCTA	NCCNCNGCCC	CCCCTCCANT	NNGGGGGACT	GCCNANNGCT	CCGTTNCTNG	420
NNACCCCNNN	GGGTNCCTCG	GTTGTCGANT	CNACCGNANG	CCANGGATTC	CNAAGGAAGG	480
TGCGTTNTTG	GCCCCTACCC	TTCGCTNCGG	NNCACCCTTC	CCGACNANGA	NCCGCTCCCG	540
CNCNNCGNNG	CCTCNCCTCG	CAACACCCGC	NCTCNTCNGT	NCGGNNNCCC	CCCCACCCGC	600
NCCCTCNCNC	NGNCGNANCN	CTCCNCCNCC	GTCTCANNCA	CCACCCCGCC	CCGCCAGGCC	660
NTCANCCACN	GGNNGACNNG	NAGCNCNNTC	GCNCCGCGCN	GCGNCNCCCT	CGCCNCNGAA	720
CTNCNTCNGG	CCANTNNCGC	TCAANCCNNA	CNAAACGCCG	CTGCGCGGCC	CGNAGCGNCC	780
NCCTCCNCGA	GTCCTCCCGN	CTTCCNACCC	ANGNNTTCCN	CGAGGACACN	NNACCCCGCC	840
NNCANGCGG						849

- (2) INFORMATION FOR SEQ ID NO:23:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 872 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:23:

GCGCAAACTA	TACTTCGCTC	GNACTCGTGC	GCCTCGCTNC	TCTTTTCCTC	CGCAACCATG	60
TCTGACNANC				AGTCCAAACT	GANTAACACA	120
CACACNCNAN		NCTGCCTTCC	ANAGTANACN	ATTGAACNNG	AGAACCANGC	180
NGGCGAATCG	TAATNAGGCG	TGCGCCGCCA	ATNTGTCNCC	GTTTATTNTN	CCAGCNTCNC	240
	TACNTCTTCN	NAGCTGTCNN	ACCCCTNGTN	CGNACCCCCC	NAGGTCGGGA	300
TCGGGTTTNN			CCCCNTCCAT	NACGANCCNC	CCGCACCACC	360
	NCCCCGNNCT		CTGTCCTNTN	CCCCTGTNGC	CTGGCNCNGN	420
ACCGCATTGA			NCGNANACGT	CCGGGTTGNN	ANNANCGCTG	480
TGGGNNNGCG			NCNNCTTCCA	CCATCTTCNT	TACNGGGTCT	540
	TCNNNCACNC		TNTCCTNTGC	CCCCCTTNAC	TCCCCCCCTT	600
	CGNCCCCACC		NACGNTCTTC	ACAANNNCCT	GGNTNNCTCC	660
CNANCNGNCN			GGNNCCNNTG	NTTGACGTTG	NGGNGANGTC	720
	TCNCCNTCAN		CGGGCGNNCT	CTCNGTTNCC	AACTTANCAA	780
NTCTCCCCCG				CTCTGCANTG	TNCTCTGCTC	840
						872
TNACCNNTAC	CENTATA LI COM	CITCOLLETI	~~			

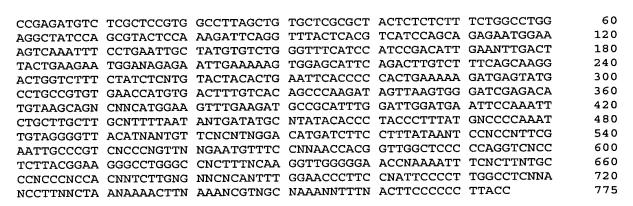
(2) INFORMATION FOR SEQ ID NO:24:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 815 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:24:

GG2 EGG2 2 GG	TTGAGTATTC	ТАТАСИСТСА	CCTAAATANC	TTGGCNTAAT	CATGGTCNTA	60
		GTATACNAAN	TANATATGAA			120
	TGTGTCAAAT		CCTGTCNGAN	CANATTCCCA		180
TCNTNCATTA		1111110100111				240
CGCATTCNCN	GCNCANTATN	TAATNGGGAA	24 7 0212121 2 2 1 1 1 1			300
GCNCCCTGAC	TGGNAGAGAT	GGATNANTTC		NACATGTTCA		
	CGCNGNCCAC		CNAGCCNNTC	CCAAGACCTC	CTGTGGAGGT	360
AANANCCCCC	AGANNCATCA	AACNTGGGAA	ACCCGCNNCC	ANGTNNAAGT	NGNNNCANAN	420
AACCIGCGIC	AGAINICATCA	AMCCOMMONIC	NGCGCCCCCCT	TTNGTGCCTT	ANAGNGNAGC	480
GATCCCGTCC	AGGNTTNACC	ATCCCTTCNC	AGCGCCCCCT	CAATTNGGCA	CAATGTCGNC	540
GTGTCCNANC	CNCTCAACAT	GANACGCGCC	MOLICO: ALOO			600
GAACCCCCTA	GGGGGANTNA	_		CNCNCANGAA		660
CCCNCCCTAC	CCNNCTTTGG	GACNGTGACC	AANTCCCGGA		GGCCNGNCTC	
CCCCACCGGT	NNCCNTGGGG	GGGTGAANCT	CNGNNTCANC		NTCGNAAGGA	720
ACCGGNCCTN		ANCHNTCHGA	AGNGCCNCNT	CGTATAACCC	CCCCTCNCCA	780
						815
NCCNACNGNT	AGNTCCCCCC	CNGGGTNCGG	AANGO			

(2) INFORMATION FOR SEQ ID NO:25:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 775 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:25:



(2) INFORMATION FOR SEQ ID NO:26:

- (i) SEOUENCE CHARACTERISTICS:
 - (A) LENGTH: 820 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:26:

ANATTANTAC	AGTGTAATCT	TTTCCCAGAG	GTGTGTANAG	GGAACGGGGC	CTAGAGGCAT	60
		ACAGTGCTTT				120
		CACTCCTCCT				180
		GGGAGTCANG		ACCACAGAGC	ANACAGACCA	240
		CGAGCCTCTT				300
		ACGTTAACGA			AAGTGCACCC	360
		ACCNNNAACT			GGANCAGCTA	420
		CCCATGGCCG		TGGTCCTGNC	AAGGGAAGCT	480
		NACCAAGGGA				540
		GCCNNTCCCC				600
GATGGAATTT				CCTTNATTGA		660
		ACTTTTNACC				
GANATTCCAC	TNNCGCCTNC	CNTCNATCNG	NAANACNAAA	NACTNTCTNA	CCCNGGGGAT	720
GGGNNCCTCG	NTCATCCTCT	CTTTTTCNCT	ACCNCCNNTT	CTTTGCCTCT	CCTTNGATCA	780
TCCAACCNTC	GNTGGCCNTN	CCCCCCNNN	TCCTTTNCCC			820

(2) INFORMATION FOR SEQ ID NO:27:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 818 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:27:

TCTGGGTGAT	GGCCTCTTCC	TCCTCAGGGA	CCTCTGACTG	CTCTGGGCCA	AAGAATCTCT	60
TGTTTCTTCT	CCGAGCCCCA	GGCAGCGGTG	ATTCAGCCCT	GCCCAACCTG	ATTCTGATGA	120
CTGCGGATGC	TGTGACGGAC	CCAAGGGGCA	AATAGGGTCC	CAGGGTCCAG	GGAGGGGCGC	180
					GGGCTGGGTC	240
TCCGCCTCCA	GGGTTCTGCT	CTTCCANGCA	NGCCANCAAG	TGGCGCTGGG	CCACACTGGC	300
1000001001						

TTCTTCCTGC	CCCNTCCCTG	GCTCTGANTC	TCTGTCTTCC	TGTCCTGTGC	ANGCNCCTTG	360
				TCTTCANTTA		420
TATNACCNAN	TGGNCTGTNC	TGTCNNACTT	TAATGGGCCN	GACCGGCTAA	TCCCTCCCTC	480
NCTCCCTTCC	ANTTCNNNNA	ACCNGCTTNC	CNTCNTCTCC	CCNTANCCCG	CCNGGGAANC	540
CTCCTTTGCC	CTNACCANGG	GCCNNNACCG	CCCNTNNCTN	GGGGGGCNNG	GTNNCTNCNC	600
				NNGCANNTTC		660
TNNCTCTTCN	NGTNTCGNAA	NGNTCNCNTN	TNNNNNGNCN	NGNTNNTNCN	TCCCTCTCNC	720
						780
		CCTCCNNTCT				818

(2) INFORMATION FOR SEQ ID NO:28:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 731 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:28:

					acar camama	60
AGGAAGGGCG	GAGGGATATT	GTANGGGATT	GAGGGATAGG	AGNATAANGG	GGGAGGTGTG	60
TCCCAACATG	ANGGTGNNGT	TCTCTTTTGA	ANGAGGGTTG	NGTTTTTANN	CCNGGTGGGT	120
100012101120		AGNNAAAGGN	TTTNAGGGAT	TTTTCGGCTC	TTATCAGTAT	180
GATTNAACCC		•			CCATCCGNAA	240
NTANATTCCT	GTNAATCGGA	AAATNATNTT	TCNNCNGGAA	AATNITGCTC	0011200	
ATTNCTCCCG	GGTAGTGCAT	NTTNGGGGGN	CNGCCANGTT	TCCCAGGCTG	CTANAATCGT	300
ACTAAAGNTT	NAACTCCCAN	TNCAAATGAA	AACCTNNCAC	AGAGNATCCN	TACCCGACTG	360
					GTCNCCCNGN	420
TNNNTTNCCT	TCGCCCTNTG	ACTCTGCNNG		CCNNGNGNAT		
NNNGCGNCNC	TGAAANNNNC	TCGNGGCTNN	GANCATCANG	GGGTTTCGCA	TCAAAAGCNN	480
	NAAGGCACTT	TNGCCTCATC	CAACCNCTNG	CCCTCNNCCA	TTTNGCCGTC	540
00111000					NAANCCTCCT	600
NGGTTCNCCT	ACGCTNNTNG	CNCCTNNNTN	GANATTTTNC			
GNAATGGGTA	GGGNCTTNTC	TTTTNACCNN	GNGGTNTACT	AATCNNCTNC	ACGCNTNCTT	660
		CAATCCCANC	GGCNAATGGG	GTCTCCCCNN	CGANGGGGGG	720
TCTCNACCCC		CAMICCCANC	3001111000			731
NNNCCCANNC	С					,,,

- (2) INFORMATION FOR SEQ ID NO:29:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 822 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:29:

ΔΟΤΔΩΤΟΌΔΟ	TGTGGTGGAA	TTCCATTGTG	TTGGGGNCNC	TTCTATGANT	ANTNTTAGAT	60
CCCTCANACC	TCACANCCTC	CCNACNANGC	CTATAANGAA	NANNAATAGA	NCTGTNCNNT	120
ATMITMENTACING	TCATANNCCT	CNNNACCCAC	TCCCTCTTAA	CCCNTACTGT	GCCTATNGCN	180
TAINICTANTOT	NTGCCGCCTN	CNANCCACCN	GTGGGCCNAC	CNCNNGNATT	CTCNATCTCC	240
TININCIANTOI	CCCTANANTA	NGTNCATACC	CTATACCTAC	NCCAATGCTA	NNNCTAANCN	300
TCNCCAININ	AMMINITAACTA	CCACTGACNT	NGACTTTCNC	ATNANCTCCT	AATTTGAATC	360
TCCAINANII	CCCACNCCCT	AMMINIATTAGC	ANCHTCCCCC	NACNATNTCT	CAACCAAATC	420
TACTOTGACT	TATCTANCTC	TTCNCCAACC	NTTNCCTCCG	ATCCCCNNAC	AACCCCCCTC	480
NTCAACAACC	MACAGOTTA	NICCTA ACCCM	CACCATCCCG	GCAAGCCNAN	GGNCATTTAN	540
CCAAATACCC	OR CHARTICOR	NCCIAACCCN	CCMAACTCTC	TANCHCHNAT	CTCCCTAANA	600
CCACTGGAAT	CACNAINGGA	NAMAMAMAC	CCMARCICIC	IMICHCHILITI	01000111	_

AATNCTCCTN	NAATTTACTN	NCANTNCCAT	CAANCCCACN	TGAAACNNAA	CCCCTGTTTT	660
					CCCCCNCTNC	720
CCNAATGAAG	GNCNCCCAAT	CNANGAAACG	NCCNTGAAAA	ANCNAGGCNA	ANANNNTCCG	780
CANATCCTAT	CCCTTANTTN	GGGGNCCCTT	NCCCNGGGCC	CC		822

- (2) INFORMATION FOR SEQ ID NO:30:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 787 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:30:

CGGCCGCCTG	CTCTGGCACA	TGCCTCCTGA	ATGGCATCAA	AAGTGATGGA	CTGCCCATTG	60
CTAGAGAAGA	CCTTCTCTCC	TACTGTCATT	ATGGAGCCCT	GCAGACTGAG	GGCTCCCCTT	120
GTCTGCAGGA	TTTGATGTCT	GAAGTCGTGG	AGTGTGGCTT	GGAGCTCCTC	ATCTACATNA	180
		TCTCTCGCCA	GCCTCCCCCT	TCTCTCCACG	CTCTCCANGG	240
ACACCAGGGG					TCCACGCGGA	300
		AGGGTCTCCT				360
	TCCACTANTT		CGCCACCNCG	GTGGGAGCTC		420
	GAAGGTTAAT	•	GCGTAATCAT	NGGTCANAAC	TNTTTCCTGT	480
TCCCNTTAAT		10011000110	NCNACATACN		CATAAAGTGT	540
GTGAAATTGT					GGCTCATGGC	600
TAAAGCCTGG		CTGTCNTCCC	CTGCNTTNNT		CCCCCCNGGG	660
CCGCTTTCCN	TTCNGGAAAA		CCNCTTCCCC		CCCTNCGCCT	720
AAAAGCGGTT	TGCNTTTTNG	GGGGNTCCTT				780
CGGTCGTTNC	NGGTNGCGGG	GAANGGGNAT	MMMCTCCCMC	DNDDDDDAAN	FORTHUM	787
CCCCAAA						

- (2) INFORMATION FOR SEQ ID NO:31:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 799 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:31:

TTTTTTTTT	TTTTTTTGGC	GATGCTACTG	TTTAATTGCA	GGAGGTGGGG	GTGTGTGTAC	60
			AAGGAGGGAG	GGCAGAGCGC	CCTGCTGAGC	120
CAIGIACCAG	TOOTOON	TTCTCTGTCT				180
		AGTCCAGGGG	TGGGAGCACT	ACANGGGGTG	GGAGTGGGTG	240
					GATTTCACCA	300
GTGGCTGGTN					ΔСΤΩΤΤΤΌΤΤ	360
GGGGACCTTC	TGTTCTCCCA	NGGNAACTTC	NINNAICICN	MANGARCACA	አርተጥርርጥልሮል	420
CNGCANTTCT	GGCTGTTCAT	GGAAAGCACA	GGTGTCCNAT	TINGGCIGGG	CCNTCTNTTG	480
TATGGTTCCG	GCCCACCTCT	CCCNTCNAAN	AAGTAATTCA	CCCCCCCCN		540
CCTGGGCCCT	TAANTACCCA	CACCGGAACT	CANTTANTTA	TTCATCTTNG	GNTGGGCTTG	
NTNATCNCCN	CCTGAANGCG	CCAAGTTGAA	AGGCCACGCC	GTNCCCNCTC	CCCATAGNAN	600
NTTTTNNCNT	CANCTAATGC	CCCCCNGGC	AACNATCCAA	TCCCCCCCCN	TGGGGGCCCC	660
AGCCCANGGC	CCCCGNCTCG	GGNNNCCNGN	CNCGNANTCC	CCAGGNTCTC	CCANTCNGNC	720
CCNNNGCNCC	CCCGCACGCA	GAACANAAGG	NTNGAGCCNC	CGCANNNNNN	NGGTNNCNAC	780
CTCGCCCCCC						799

(2) INFORMATION FOR SEQ ID NO:32:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 789 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:32:

		TTTTTTTTTT		TTTTTTTTTT	ՠՠՠՠՠՠՠՠՠ	60
TTTTTTTTT	TTTTTTTTTT				111111111	=
TTTTNCCNAG	GGCAGGTTTA	TTGACAACCT	CNCGGGACAC	AANCAGGCTG	GGGACAGGAC	120
GGCAACAGGC	TCCGGCGGCG	GCGGCGGCGG	CCCTACCTGC	GGTACCAAAT	NTGCAGCCTC	180
CGCTCCCGCT	TGATNTTCCT	CTGCAGCTGC	AGGATGCCNT	AAAACAGGGC	CTCGGCCNTN	240
	CTGGGATTTN			GGTCGCANCC		300
NATTAGGAAT	AGTGGTNTTA	CCCNCCNCCG	TTGGCNCACT	CCCCNTGGAA	ACCACTTNTC	360
				$\tt GCCCTCTTTT$	TGGTTANTNT	420
	ATCATNACTC			CAAAAAANCN	CCCCAAAACC	480
GGNCCATGTC		TGCTGCNATN		CCCGGGCNCA	NCAGGNCAAC	540
	TTGNGGCCCN		CCGGGGGGNC	CCAGTTTCAA	CAAAGTCATC	600
4	CCCAAATCCT			GGAACCCACG		660
						720
TGGNNGGCAA			CCCGGTGGGC			
NTCCTNNNCA	CCATCCCCCC	NNGNNACGNC	TANCAANGNA	TCCCTTTTTT	TANAAACGGG	780
2,2002						789
CCCCCCNCG						

- (2) INFORMATION FOR SEQ ID NO:33:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 793 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:33:

GACAGAACAT	GTTGGATGGT	GGAGCACCTT	TCTATACGAC	TTACAGGACA	GCAGATGGGG	60
	TGTTGGAGCA					120
	TGATGAACTT	CCCAATCAGA		TGATTGGCCA	GAAATGAANA	180
	AGATGTATTT	GCAAAGAAGA	CGAAGGCAGA	GTGGTGTCAA	ATCTTTGACG	240
GCACAGATGC			CTTTTGAGGA	GGTTGTTCAT	CATGATCACA	300
ACAANGAACG			AGGAGCAGGA	CGTGAGCCCC	CGCCCTGCAC	360
	AAACACCCCA		CTTTCAAAAG	GGATCCACTA	CTTCTAGAGC	420
GGNCGCCACC			GTTCCCTTTA	GTGAGGGTTA	ATTGCGCGCT	480
	ATGGTCATAN		TGTGAAATTG	TTATCCGCTC	ACAATTCCAC	540
ACAACATACG	· · ·		AAAGCCTGGN	GGTNGCCTAA	TGANTGAACT	600
NACTCACATT			CCCGCTTTCC	AGTCCGGAAA	ACCTGTCCTT	660
	NTTAATGAAT			AGGCNGTTTG	CTTNTTGGGG	720
CGCNCTTCCC			CCTTCCCCCC	GGTCTTTCGG	CTTGCGGCNA	780
ACGGTATCNA	••					793

- (2) INFORMATION FOR SEQ ID NO:34:
 - (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 756 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:34:

GCCGCGACCG	GCATGTACGA	GCAACTCAAG	GGCGAGTGGA	ACCGTAAAAG	CCCCAATCTT	60
				TTCTGGAGCT		120
				TGGCCCGTGA		180
ATCGGGGCCC	AATGGAGCAT	CCTACGCAAN	GACATCCCCT	CCTTCGAGCG	CTACATGGCC	240
CAGCTCAAAT	GCTACTACTT	TGATTACAAN	GAGCAGCTCC	CCGAGTCAGC	CTATATGCAC	300
CAGCTCTTGG	GCCTCAACCT	CCTCTTCCTG	CTGTCCCAGA	ACCGGGTGGC	TGANTNCCAC	360
ACGGANTTGG	ANCGGCTGCC	TGCCCAANGA	CATACANACC	AATGTCTACA	TCNACCACCA	420
GTGTCCTGGA	GCAATACTGA	TGGANGGCAG	CTACCNCAAA	GTNTTCCTGG	CCNAGGGTAA	480
CATCCCCCGC	CGAGAGCTAC	ACCTTCTTCA	TTGACATCCT	GCTCGACACT	ATCAGGGATG	540
AAAATCGCNG	GGTTGCTCCA	GAAAGGCTNC	AANAANATCC	TTTTCNCTGA	AGGCCCCCGG	600
ATNCNCTAGT	NCTAGAATCG	GCCCGCCATC	GCGGTGGANC	CTCCAACCTT	TCGTTNCCCT	660
TTACTGAGGG	TTNATTGCCG	CCCTTGGCGT	TATCATGGTC	ACNCCNGTTN	CCTGTGTTGA	720
AATTNTTAAC	CCCCCACAAT	TCCACGCCNA	CATTNG			756

- (2) INFORMATION FOR SEQ ID NO:35:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 834 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:35:

GGGGATCTCT	ANATCNACCT	GNATGCATGG	TTGTCGGTGT	GGTCGCTGTC	GATGAANATG	60
AACAGGATCT	TGCCCTTGAA		GCTGTNTTTA	AGTTGCTCAG	TCTGCCGTCA	120
TAGTCAGACA		CAAAAAACAN	CAGGATNTGA	GTCTTGATTT	CACCTCCAAT	180
			GATGACNANG	GGCAGCTGGT	TGTGTNTGAT	240
141101101100	ANGTTCTCCT			TTGTTCCGGC	CTTCATCAAA	300
	ANGANNANCC		GAGCTGGNAT	TTGGANAACA	CGTCACTGTT	360
Q1101111	CCCAAATGGT		TCGCCTCTGC	TGCCTGCAAA	AAACTTGCTT	420
GGCNCAAATC	CGACTCCCCN	TCCTTGAAAG	AAGCCNATCA	CACCCCCTC	CCTGGACTCC	480
NNCAANGACT		CCCNTCCNNG	CAGGGTTGGT	GGCANNCCGG	GCCCNTGCGC	540
	AGTTCACNAT	NTTCATCAGC	CCCTCTGCCA	GCTGTTNTAT	TCCTTGGGGG	600
GGAANCCGTC	TCTCCCTTCC		TTGACCGTNG	GAATAGCCGC	GCNTCNCCNT	660
ACNTNCTGGG	CCGGGTTCAA	ANTCCCTCCN	TTGNCNNTCN	CCTCGGGCCA	TTCTGGATTT	720
NCCNAACTTT	TTCCTTCCCC	CNCCCCNCGG	NGTTTGGNTT	TTTCATNGGG	CCCCAACTCT	780
GCTNTTGGCC	ANTCCCCTGG	GGGCNTNTAN	CNCCCCCTNT	GGTCCCNTNG	GGCC	834

- (2) INFORMATION FOR SEQ ID NO:36:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 814 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear

- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:36:

CGGNCGCTTT	CCNGCCGCGC	CCCGTTTCCA	TGACNAAGGC	TCCCTTCANG	TTAAATACNN	60
CCTAGNAAAC	ATTAATGGGT	TGCTCTACTA	ATACATCATA	CNAACCAGTA	AGCCTGCCCA	120
NAACGCCAAC	TCAGGCCATT	CCTACCAAAG	GAAGAAAGGC	TGGTCTCTCC	ACCCCCTGTA	180
GGAAAGGCCT	GCCTTGTAAG	ACACCACAAT	NCGGCTGAAT	CTNAAGTCTT	GTGTTTTACT	240
AATGGAAAAA	AAAAATAAAC	AANAGGTTTT	GTTCTCATGG	CTGCCCACCG	CAGCCTGGCA	300
CTAAAACANC	CCAGCGCTCA	CTTCTGCTTG	GANAAATATT	CTTTGCTCTT	TTGGACATCA	360
GGCTTGATGG	TATCACTGCC	ACNTTTCCAC	CCAGCTGGGC	NCCCTTCCCC	CATNTTTGTC	420
ANTGANCTGG	AAGGCCTGAA	NCTTAGTCTC	CAAAAGTCTC	NGCCCACAAG	ACCGGCCACC	480
AGGGGANGTC	NTTTNCAGTG	GATCTGCCAA	ANANTACCCN	TATCATCNNT	GAATAAAAAG	540
GCCCCTGAAC	GANATGCTTC	CANCANCCTT	TAAGACCCAT	AATCCTNGAA	CCATGGTGCC	600
CTTCCGGTCT	GATCCNAAAG	GAATGTTCCT	GGGTCCCANT	CCCTCCTTTG	TTNCTTACGT	660
TGTNTTGGAC	CCNTGCTNGN	ATNACCCAAN	TGANATCCCC	NGAAGCACCC	TNCCCCTGGC	720
ATTTGANTTT	CNTAAATTCT	CTGCCCTACN	NCTGAAAGCA	CNATTCCCTN	GGCNCCNAAN	780
GGNGAACTCA	AGAAGGTCTN	NGAAAAACCA	CNCN			814

- (2) INFORMATION FOR SEQ ID NO:37:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 760 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:37:

GCATGCTGCT	CTTCCTCAAA	GTTGTTCTTG	TTGCCATAAC	AACCACCATA	GGTAAAGCGG	60
						120
		ATGCCCTTTG				180
		TTCACANGCA				240
GTGTCGTCAC	ACTCCACTAA	ACTGTCGATN	CANCAGCCCA	TTGCTGCAGC	GGAACTGGGT	300
GGGCTGACAG	GTGCCAGAAC	ACACTGGATN	GGCCTTTCCA	TGGAAGGGCC	TGGGGGAAAT	360
CNCCTNANCC	CAAACTGCCT	CTCAAAGGCC	ACCTTGCACA	CCCCGACAGG	CTAGAAATGC	420
ACTCTTCTTC	CCAAAGGTAG	TTGTTCTTGT	TGCCCAAGCA	NCCTCCANCA	AACCAAAANC	480
		GGGTCATNNN				540
		NAAGGNAATA				600
		GGCCGNGTTC			AATCACCGTC	660
		TTCCTTGAAT				720
		TNTTCCCCCC				760

- (2) INFORMATION FOR SEQ ID NO:38:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 724 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:38:

CTTCCNAAAT	TGTCCAACCC	CCTCNNCCAA	ATNNCCATTT	CCGGGGGGGG	GTTCCAAACC	120
CAAATTAATT	TTGGANTTTA	AATTAAATNT	TNATTNGGGG	AANAANCCAA	ATGTNAAGAA	180
		TAAATNCCTN				240
	TCCGAAATTG				TTTGAAGGTT	300
NGATTTAAAC	CCCCTTNANT	TNTTTTNACC	CNNGNCTNAA	NTATTTNGNT	TCCGGTGTTT	360
TCCTNTTAAN		TCCCGNTAAT		AANCCAATTA	AACCGAATTT	420
10011111111	GGAAATTCCN			TCCCNTTTGG		480
						540
CCCNCTTTCG	GGGTTTGGGN				NCCCCCIPINI	
AAAAAACTCC	CAAGNNTTAA	TTNGAATNTC	CCCCTTCCCA	GGCCTTTTGG	GAAAGGNGGG	600
TTTNTGGGGG	CCNGGGANTT	CNTTCCCCCN	TTNCCNCCCC	CCCCCNGGT	AAANGGTTAT	660
NGNNTTTGGT	TTTTGGGCCC	CTTNANGGAC	CTTCCGGATN	GAAATTAAAT	CCCCGGGNCG	720
GCCG						724

- (2) INFORMATION FOR SEQ ID NO:39:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 751 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:39:

TTTTTTTTT	TTTTTCTTTG	CTCACATTTA	ATTTTTATTT	TGATTTTTTT	TAATGCTGCA	60
CAACACAATA	TTTATTTCAT	TTGTTTCTTT	TATTTCATTT	TATTTGTTTG	CTGCTGCTGT	120
TTTATTTATT	TTTACTGAAA	GTGAGAGGGA	ACTTTTGTGG	CCTTTTTTCC	TTTTTCTGTA	180
GGCCGCCTTA	AGCTTTCTAA	ATTTGGAACA	TCTAAGCAAG	CTGAANGGAA	AAGGGGGTTT	240
	CTCGGGGGAA			TCATGCCCTA	TGGTGGGTGA	300
				TGCTNAANGC	TTTAATTANA	360
	CCCTCCCCAN				TCAAATNATG	420
TCCCGGCNNT		CACNGCNGAA			CAGGTNAAAA	480
TGAAGGGTTA	CCATNTTTAA	CNCCACCTCC	ACNTGGCNNN	GCCTGAATCC	TCNAAAANCN	540
				CNCCCGGGCT	CCGGGAANTN	600
CACCCCNGA				TCCCNNTCNC		660
CNNAGACTNT	CCTCNNCNAN	CNCAATTTTC	TTTTNNTCAC	GAACNCGNNC	CNNAAAATGN	720
NNNNCNCCTC	CNCTNGTCCN	NAATCNCCAN	С			751

- (2) INFORMATION FOR SEQ ID NO:40:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 753 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:40:

GTGGTATTTT	CTGTAAGATC	AGGTGTTCCT	CCCTCGTAGG	TTTAGAGGAA	ACACCCTCAT	60
AGATGAAAAC	CCCCCGAGA	CAGCAGCACT	GCAACTGCCA	AGCAGCCGGG	GTAGGAGGGG	120
CGCCCTATGC	ACAGCTGGGC	CCTTGAGACA	GCAGGGCTTC	GATGTCAGGC	TCGATGTCAA	180
TGGTCTGGAA	GCGGCGGCTG	TACCTGCGTA	GGGGCACACC	GTCAGGGCCC	ACCAGGAACT	240
					AGCTTGGGGT	300
CCCTCATAAN	CGCGGTGGCG	TCGTCGCTGG	GAGCTGGCAG	GGCCTCCCGC	AGGAAGGCNA	360
ATAAAAGGTG	CGCCCCCGCA	CCGTTCANCT	CGCACTTCTC	NAANACCATG	ANGTTGGGCT	420
VIVVVVQQIQ	COCCCCCC	000110.0.01				

CNAACCCACC ACCANNCCGG ACTTCCTTGA NGGAATTCCC AAATCTCTTC GNTCTTGGGC TTCTNCTGAT GCCCTANCTG GTTGCCCNGN ATGCCAANCA NCCCCAANCC CCGGGGTCCT AAANCACCCN CCTCCTCNTT TCATCTGGGT TNTTNTCCCC GGACCNTGGT TCCTCTCAAG GGANCCCATA TCTCNACCAN TACTCACCNT NCCCCCCCNT GNNACCCANC CTTCTANNGN TTCCCNCCCG NCCTCTGGCC CNTCAAANAN GCTTNCACNA CCTGGGTCTG CCTTCCCCCC TNCCCTATCT GNACCCCNCN TTTGTCTCAN TNT	480 540 600 660 720 753
(2) INFORMATION FOR SEQ ID NO:41:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 341 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
(ii) MOLECULE TYPE: cDNA	
<pre>(vi) ORIGINAL SOURCE: (A) ORGANISM: Homo sapiens</pre>	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:41:	
ACTATATCCA TCACAACAGA CATGCTTCAT CCCATAGACT TCTTGACATA GCTTCAAATG AGTGAACCCA TCCTTGATTT ATATACATAT ATGTTCTCAG TATTTTGGGA GCCTTTCCAC TTCTTTAAAC CTTGTTCATT ATGAACACTG AAAATAGGAA TTTGTGAAGA GTTAAAAAGT TATAGCTTGT TTACGTAGTA AGTTTTTGAA GTCTACATTC AATCCAGACA CTTAGTTGAG TGTTAAACTG TGATTATAT TGATTATAT TTGAGAATAT TCTTTCAGAG GTATTTTCAT TTTTACTTTT TGATTAATTG TGTTTTATAT ATTAGGGTAG T	60 120 180 240 300 341
(2) INFORMATION FOR SEQ ID NO:42:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 101 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
(ii) MOLECULE TYPE: cDNA	
<pre>(vi) ORIGINAL SOURCE: (A) ORGANISM: Homo sapiens</pre>	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:42:	
ACTTACTGAA TTTAGTTCTG TGCTCTTCCT TATTTAGTGT TGTATCATAA ATACTTTGAT GTTTCAAACA TTCTAAATAA ATAATTTTCA GTGGCTTCAT A	60 101
(2) INFORMATION FOR SEQ ID NO:43:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 305 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	

(vi) ORIGINAL SOURCE:

(ii) MOLECULE TYPE: cDNA

- (A) ORGANISM: Homo spiens
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:43:

ACATCTTTGT TACAGTCTA	GATGTGTTCT	TAAATCACCA	TTCCTTCCTG	GTCCTCACCC	60
TCCAGGGTGG TCTCACACTC	TAATTAGAGC	TATTGAGGAG	TCTTTACAGC	AAATTAAGAT	120
TCAGATGCCT TGCTAAGTCT	AGAGTTCTAG	AGTTATGTTT	CAGAAAGTCT	AAGAAACCCA	180
CCTCTTGAGA GGTCAGTAA	GAGGACTTAA	TATTTCATAT	CTACAAAATG	ACCACAGGAT	240
TGGATACAGA ACGAGAGTTA	TCCTGGATAA	CTCAGAGCTG	AGTACCTGCC	CGGGGGCCGC	300
TCGAA					305

- (2) INFORMATION FOR SEQ ID NO:44:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 852 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (vi) ORIGINAL SOURCE:
 - (A) ORGANISM: Homo sapiens
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:44:

	~~ ~~ ~~ ~~ ~~ ~~	TAGTCTTTGA	አአጥአጥጥጥልሮር	TCCAGGAGTT	CTTTGTTTCT	60
ACATAAATAT	CAGAGAAAAG			GCAGCTTCAG	TTTTCATTTT	120
GATTATTTGG	TGTGTGTTTT	GGTTTGTGTC	CAAAGTATTG			180
CTCTCCATCC	TCGGGCATTC	TTCCCAAATT	TATATACCAG	TCTTCGTCCA	TCCACACGCT	
CCAGAATTTC	TCTTTTGTAG	TAATATCTCA	TAGCTCGGCT	GAGCTTTTCA	TAGGTCATGC	240
TGCTGTTGTT	CTTCTTTTTA	CCCCATAGCT	GAGCCACTGC	CTCTGATTTC	AAGAACCTGA	300
10010			TTAATCCTGG	GTTCTTGTCT	GGGTTCAAGA	360
AGACGCCCTC			TCCCTCTCGG	GTTGTGCTTT	TTGGTGTGGC	420
GGATGTCGCG	GATGAATTCC				GGAAGGTGAC	480
ACTTGGCAGG	GGGGTCTTGC	TCCTTTTTCA	TATCAGGTGA			
TGGTGGTTGT	CATGGAGATC	TGAGCCCGGC	AGAAAGTTTT	GCTGTCCAAC	AAATCTACTG	540
TGCTACCATA	GTTGGTGTCA	TATAAATAGT	TCTNGTCTTT	CCAGGTGTTC	ATGATGGAAG	600
	01100	ACAATGACAT	тстстстсса	CTGGAACAGG	TCACTACTGC	660
GCTCAGTTTG	TTCAGTCTTG				GCCGTCCCTG	720
ACTGGCCGTT	CCACTTCAGA	TGCTGCAAGT	TGCTGTAGAG			780
CCGCCCGGGT	GAACTCCTGC	AAACTCATGC	TGCAAAGGTG	CTCGCCGTTG	ATGTCGAACT	
CNTGGAAAGG	GATACAATTG	GCATCCAGCT	GGTTGGTGTC	CAGGAGGTGA	TGGAGCCACT	840
01110012210						852
CCCACACCTG	Gı					

- (2) INFORMATION FOR SEQ ID NO:45:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 234 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (vi) ORIGINAL SOURCE:
 - (A) ORGANISM: Homo sapiens
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:45:

AGTCTGACAC	CATCCGGAGC	ATCAGCATTG	CTTCGCAGTG	CCCTACCGCG	GGGAACTCTT	120
GCCTCGTTTC	TGGCTGGGGT	CTGCTGGCGA	ACGGCAGAAT	GCCTACCGTG	CTGCAGTGCG	180
TGAACGTGTC	GGTGGTGTCT	GAGGAGGTCT	GCAGTAAGCT	CTATGACCCG	CTGT	234

- (2) INFORMATION FOR SEQ ID NO:46:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 590 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (vi) ORIGINAL SOURCE:
 - (A) ORGANISM: Homo sapiens
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:46:

TADAGGCAGAT	CTATGAGAAT	GATAGAAAAC	ATGGTGTGTA	60
TTC ACATTACAGA	GTTTTAGTAA	TTACCAATTA	CACAGTTAAA	120
IGG AGAIIACACA	ΤΔΔΤΏΤΑΤΑ	GAAAGATCAA	GGCAGGAAAA	180
CAA GCANATACAA	ACTATOTACT	GAATTGCACA	TTATCCTTTA	240
CAA TGGAAAATCA	ATTITATOT	CANACACTCT	ΤΑΑΑΤΩΩΤΑΤ	300
MAA TTATTGCAGT	CTANTIAATI	CAAACAGIGI	NCACCCANAT	360
GGG CANAAAGAAT	TAATTTTCAC	TICATGIAAC	NOACCCATATI	420
CAN GGAAAAAGCA	GTGGAAGTAG	GGAAGTANTC	AAGGICIIIC	480
TAC TCTTTGGGTG	TGGCTTTGAT	CCTCTGGAGA	CAGCTGCCAG	540
CAA TCCCAGCAGC	AAGATGAAGG	GATGAAAAAG	GACACATGCT	
ACTT CATCTCACTG	GCCAACACTC	AGTCACATGT		590
	TGG AGATTACAGA CAA GCANATACAA ACAA TGGAAAATCA NAA TTATTGCAGT AGGG CANAAAGAAT CAN GGAAAAAGCA TTAC TCTTTGGGTG	TGG AGATTACAGA GTTTTAGTAA CAA GCANATACAA AATATCTAAT ACAA TGGAAAATCA ATTTTAATGT NAA TTATTGCAGT CTANTTAATT AGGG CANAAAGAAT TAATTTTCAC GCAN GGAAAAAGCA GTGGAAGTAG TTAC TCTTTGGGTG TGGCTTTGAT ACAA TCCCAGCAGC AAGATGAAGG	TGG AGATTACAGA GTTTTAGTAA TTACCAATTA CAA GCANATACAA AATATCTAAT GAAAGATCAA ACAA TGGAAAATCA ATTTTAATGT GAATTGCACA ANAA TTATTGCAGT CTANTTAATT CAAACAGTGT AGGG CANAAAGAAT TAATTTTCAC TTCATGTAAC BCAN GGAAAAAGCA GTGGAAGTAG GGAAGTANTC TTAC TCTTTGGGTG TGGCTTTGAT CCTCTGGAGA ACAA TCCCAGCAGC AAGATGAAGG GATGAAAAAG	TTTA TAAGGCAGAT CTATGAGAAT GATAGAAAAC ATGGTGTGTA TTGG AGATTACAGA GTTTTAGTAA TTACCAATTA CACAGTTAAA CCAA GCANATACAA AATATCTAAT GAAAGATCAA GGCAGGAAAA CAA TGGAAAATCA ATTTTAATGT GAATTGCACA TTATCCTTTA LAGG CANAAAGAAT TAATTTCAC TTCATGTAAC NCACCCANAT CCAA GGAAAAAGCA GTGGAAGTAG GGAAGTANTC AAGGTCTTTC CTAC TCTTTGGGTG TGGCTTTGAT CCTCTGGAGA CAGCTGCCAG LACAA TCCCAGCAGC AAGATGAAGG GATGAAAAAG GACACATGCT LACT CATCTCACTG GCCAACACTC AGTCACATGT

- (2) INFORMATION FOR SEQ ID NO:47:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 774 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (vi) ORIGINAL SOURCE:
 - (A) ORGANISM: Homo sapiens
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:47:

	***********	AGTGGGGANA	GATTTTAAAG	AAGGAAAAAA	AACGAGGCCC	60
ACAAGGGGGC	ATAATGAAGG	AACGGGGCTT	CANANTANTT	TTCTTGGGGA	GGTTCAAGAC	120
TGAACAGAAT	TTTCCTGNAC	AACGGGGCTT	CAMMAIAMI	TTCTTCCTAATC	ACCCTGAGGG	180
GCTTCACTGC	TTGAAACTTA	AATGGATGTG	GGACANAATT	TICIGIAATG	CEN VECCCV V	240
CATTACAGAC	GGGACTCTGG	GAGGAAGGAT	AAACAGAAAG	GGGACAAAGG	CIAAICCCAA	300
$\Lambda\Lambda$ C Λ TC $\Lambda\Lambda\Lambda$ C	AAAGGAAGGT	GGCGTCATAC	CTCCCAGCCT	ACACAGTTCT	CCAGGGCTCT	
COMONTOCOM	CCACGACGAC	AGTGGAGGAA	CAACTGACCA	TGTCCCCAGG	CICCIGIGIG	360
CCICATCCCI	GGAGGACGAC	CCCAGCTCTG	GAAGCCCACC	CTCTGCTGAT	CCTGCGTGGC	420
CTGGCTCCTG	GICTICAGCC	TCCCCAGGTT	ATATTCCTCC	ΔCΔTGGCTGA	ACCTCCTATT	480
CCACACTCCT	TGAACACACA	TCCCCAGGII	AIMITCCIGO	TOTO CTCAC	CCTCCDAACC	540
CCTACTTCCG	AGATGCCTTG	CTCCCTGCAG	CCTGTCAAAA	TCCCACTCAC	CCICCAMACC	600
ACGGCATGGG	AAGCCTTTCT	GACTTGCCTG	ATTACTCCAG	CATCTTGGAA	CAATCCCIGA	
TTCCCCACTC	CTTAGAGGCA	AGATAGGGTG	GTTAAGAGTA	GGGCTGGACC	ACTIGGAGCC	660
1 CCCCACTC	CTTCAAATTN	TGGCTCATTT	ACGAGCTATG	GGACCTTGGG	CAAGTNATCT	720
AGGCTGCTGG	CIICAAAIIN	TTGTTCTACC	TGCAAAATGG	GGGATAATAA	TAGT	774
TCACTTCTAT	GGGCNTCATT	LIGITCIACC	TOCHIMITOO			

·	
(2) INFORMATION FOR SEQ ID NO:48:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 124 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
(ii) MOLECULE TYPE: cDNA	
(vi) ORIGINAL SOURCE: (A) ORGANISM: Homo sapiens	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:48:	
CANAAATTGA AATTTTATAA AAAGGCATTT TTCTCTTATA TCCATAAAAT GATATAATTT TTGCAANTAT ANAAATGTGT CATAAATTAT AATGTTCCTT AATTACAGCT CAACGCAACT TGGT	60 120 124
(2) INFORMATION FOR SEQ ID NO:49:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 147 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
(ii) MOLECULE TYPE: cDNA	
<pre>(vi) ORIGINAL SOURCE: (A) ORGANISM: Homo sapiens</pre>	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:49:	
GCCGATGCTA CTATTTTATT GCAGGAGGTG GGGGTGTTTT TATTATTCTC TCAACAGCTT TGTGGCTACA GGTGGTGTCT GACTGCATNA AAAANTTTTT TACGGGTGAT TGCAAAAATT TTAGGGCACC CATATCCCAA GCANTGT	60 120 147
(2) INFORMATION FOR SEQ ID NO:50:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 107 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
(ii) MOLECULE TYPE: cDNA	
<pre>(vi) ORIGINAL SOURCE: (A) ORGANISM: Homo sapiens</pre>	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:50:	
ACATTAAATT AATAAAAGGA CTGTTGGGGT TCTGCTAAAA CACATGGCTT GATATATTGC ATGGTTTGAG GTTAGGAGGA GTTAGGCATA TGTTTTGGGA GAGGGGT	60 107
(2) INFORMATION FOR SEQ ID NO:51:	

- (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 204 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (vi) ORIGINAL SOURCE: (A) ORGANISM: Homo sapiens (xi) SEQUENCE DESCRIPTION: SEQ ID NO:51: GTCCTAGGAA GTCTAGGGGA CACACGACTC TGGGGTCACG GGGCCGACAC ACTTGCACGG CGGGAAGGAA AGGCAGAGAA GTGACACCGT CAGGGGGAAA TGACAGAAAG GAAAATCAAG 120 GCCTTGCAAG GTCAGAAAGG GGACTCAGGG CTTCCACCAC AGCCCTGCCC CACTTGGCCA 180 204 CCTCCCTTTT GGGACCAGCA ATGT (2) INFORMATION FOR SEQ ID NO:52: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 491 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (vi) ORIGINAL SOURCE: (A) ORGANISM: Homo sapiens (xi) SEQUENCE DESCRIPTION: SEQ ID NO:52: ACAAAGATAA CATTTATCTT ATAACAAAAA TTTGATAGTT TTAAAGGTTA GTATTGTGTA 60 GGGTATTTTC CAAAAGACTA AAGAGATAAC TCAGGTAAAA AGTTAGAAAT GTATAAAACA 120 CCATCAGACA GGTTTTTAAA AAACAACATA TTACAAAATT AGACAATCAT CCTTAAAAAA 180 AAAACTTCTT GTATCAATTT CTTTTGTTCA AAATGACTGA CTTAANTATT TTTAAATATT 240 TCANAAACAC TTCCTCAAAA ATTTTCAANA TGGTAGCTTT CANATGTNCC CTCAGTCCCA 300 ATGTTGCTCA GATAAATAAA TCTCGTGAGA ACTTACCACC CACCACAAGC TTTCTGGGGC 360 ATGCAACAGT GTCTTTTCTT TNCTTTTTCT TTTTTTTTTTT TTACAGGCAC AGAAACTCAT 420 CAATTTTATT TGGATAACAA AGGGTCTCCA AATTATATTG AAAAATAAAT CCAAGTTAAT 480 491 ATCACTCTTG T (2) INFORMATION FOR SEQ ID NO:53: (i) SEQUENCE CHARACTERISTICS:
 - - - (A) LENGTH: 484 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (vi) ORIGINAL SOURCE:
 - (A) ORGANISM: Homo sapiens
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:53:

ACATAATTTA GCAGGGCTAA TTACCATAAG ATGCTATTTA TTAANAGGTN TATGATCTGA GTATTAACAG TTGCTGAAGT TTGGTATTTT TATGCAGCAT TTTCTTTTTG CTTTGATAAC ACTACAGAAC CCTTAAGGAC ACTGAAAATT AGTAAGTAAA GTTCAGAAAC ATTAGCTGCT CAATCAAATC TCTACATAAC ACTATAGTAA TTAAAACGTT AAAAAAAAAGT GTTGAAATCT GCACTAGTAT ANACCGCTCC TGTCAGGATA ANACTGCTTT GGAACAGAAA GGGAAAAAACC AGGTTGAAT TTCTTTGTGC TGATANGAGG AAAGGCTGAA TTACCTTGTT GCCTCTCCCT AATGATTGGC AGGTCNGGTA AATNCCAAAA CATATTCCAA CTCAACACTT CTTTTCCNCG TANCTTGANT CTGTGTATTC CAGGANCAGG CGGATGGAAT GGGCCAGCCC NCGGATGTTC CANT	60 120 180 240 300 360 420 480 484
(2) INFORMATION FOR SEQ ID NO:54:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 151 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
(ii) MOLECULE TYPE: cDNA	
<pre>(vi) ORIGINAL SOURCE: (A) ORGANISM: Homo sapiens</pre>	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:54:	
ACTAAACCTC GTGCTTGTGA ACTCCATACA GAAAACGGTG CCATCCCTGA ACACGGCTGG CCACTGGGTA TACTGCTGAC AACCGCAACA ACAAAAACAC AAATCCTTGG CACTGGCTAG TCTATGTCCT CTCAAGTGCC TTTTTGTTTG T	60 120 151
(2) INFORMATION FOR SEQ ID NO:55:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 91 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
(ii) MOLECULE TYPE: cDNA	
<pre>(vi) ORIGINAL SOURCE: (A) ORGANISM: Homo sapiens</pre>	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:55:	
ACCTGGCTTG TCTCCGGGTG GTTCCCGGCG CCCCCCACGG TCCCCAGAAC GGACACTTTC GCCCTCCAGT GGATACTCGA GCCAAAGTGG T	60 91
(2) INFORMATION FOR SEQ ID NO:56:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 133 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
(ii) MOLECULE TYPE: cDNA	

<pre>(vi) ORIGINAL SOURCE: (A) ORGANISM: Homo sapiens</pre>	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:56:	
GGCGGATGTG CGTTGGTTAT ATACAAATAT GTCATTTTAT GTAAGGGACT TGAGTATACT TGGATTTTTG GTATCTGTGG GTTGGGGGGA CGGTCCAGGA ACCAATACCC CATGGATACC AAGGGACAAC TGT	60 120 133
(2) INFORMATION FOR SEQ ID NO:57:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 147 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
(ii) MOLECULE TYPE: cDNA	
<pre>(vi) ORIGINAL SOURCE: (A) ORGANISM: Homo sapiens</pre>	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:57:	
ACTCTGGAGA ACCTGAGCCG CTGCTCCGCC TCTGGGATGA GGTGATGCAN GCNGTGGCGC GACTGGGAGC TGAGCCCTTC CCTTTGCGCC TGCCTCAGAG GATTGTTGCC GACNTGCANA TCTCANTGGG CTGGATNCAT GCAGGGT	60 120 147
(2) INFORMATION FOR SEQ ID NO:58:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 198 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
(ii) MOLECULE TYPE: cDNA	
<pre>(vi) ORIGINAL SOURCE: (A) ORGANISM: Homo sapiens</pre>	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:58:	
ACAGGGATAT AGGTTTNAAG TTATTGTNAT TGTAAAATAC ATTGAATTTT CTGTATACTC TGATTACATA CATTTATCCT TTAAAAAAGA TGTAAATCTT AATTTTTATG CCATCTATTA ATTTACCAAT GAGTTACCTT GTAAATGAGA AGTCATGATA GCACTGAATT TTAACTAGTT TTGACTTCTA AGTTTGGT	60 120 180 198
(2) INFORMATION FOR SEQ ID NO:59:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 330 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	

(ii) MOLECULE TYPE: cDNA

(vi) ORIGINAL SOURCE:(A) ORGANISM: Homo sapiens	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:59:	
ACAACAAATG GGTTGTGAGG AAGTCTTATC AGCAAAACTG GTGATGGCTA CTGAAAAGAT CCATTGAAAA TTATCATTAA TGATTTTAAA TGACAAGTTA TCAAAAACTC ACTCAATTTT CACCTGTGCT AGCTTGCTAA AATGGGAGTT AACTCTAGAG CAAATATAGT ATCTTCTGAA TACAGTCAAT AAATGACAAA GCCAGGGCCT ACAGGTGGTT TCCAGACTTT CCAGACCCAG CAGAAGGAAT CTATTTTATC ACATGGATCT CCGTCTGTGC TCAAAATACC TAATGATATT TTTCGTCTTT ATTGGACTTC TTTGAAGAGT	60 120 180 240 300 330
(2) INFORMATION FOR SEQ ID NO:60:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 175 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
(ii) MOLECULE TYPE: cDNA	
<pre>(vi) ORIGINAL SOURCE: (A) ORGANISM: Homo sapiens</pre>	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:60:	
ACCGTGGGTG CCTTCTACAT TCCTGACGGC TCCTTCACCA ACATCTGGTT CTACTTCGGC GTCGTGGGCT CCTTCCTCTT CATCCTCATC CAGCTGGTGC TGCTCATCGA CTTTGCGCAC TCCTGGAACC AGCGGTGGCT GGGCAAGGCC GAGGAGTGCG ATTCCCGTGC CTGGT	60 120 175
(2) INFORMATION FOR SEQ ID NO:61:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 154 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
(ii) MOLECULE TYPE: cDNA	
<pre>(vi) ORIGINAL SOURCE: (A) ORGANISM: Homo sapiens</pre>	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:61:	
ACCCCACTTT TCCTCCTGTG AGCAGTCTGG ACTTCTCACT GCTACATGAT GAGGGTGAGT GGTTGTTGCT CTTCAACAGT ATCCTCCCCT TTCCGGATCT GCTGAGCCGG ACAGCAGTGC TGGACTGCAC AGCCCCGGGG CTCCACATTG CTGT	60 120 154
(2) INFORMATION FOR SEQ ID NO:62:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 30 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	

(ii) MOLECULE TYPE: cDNA	
<pre>(vi) ORIGINAL SOURCE: (A) ORGANISM: Homo sapiens</pre>	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:62:	
CGCTCGAGCC CTATAGTGAG TCGTATTAGA	30
(2) INFORMATION FOR SEQ ID NO:63:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 89 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
(ii) MOLECULE TYPE: cDNA	
<pre>(vi) ORIGINAL SOURCE: (A) ORGANISM: Homo sapiens</pre>	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:63:	
ACAAGTCATT TCAGCACCCT TTGCTCTTCA AAACTGACCA TCTTTTATAT TTAATGCTTC CTGTATGAAT AAAAATGGTT ATGTCAAGT	60 89
(2) INFORMATION FOR SEQ ID NO:64:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 97 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
(ii) MOLECULE TYPE: cDNA	
(vi) ORIGINAL SOURCE:(A) ORGANISM: Homo sapiens	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:64:	
ACCGGAGTAA CTGAGTCGGG ACGCTGAATC TGAATCCACC AATAAATAAA GGTTCTGCAG AATCAGTGCA TCCAGGATTG GTCCTTGGAT CTGGGGT	60 97
(2) INFORMATION FOR SEQ ID NO:65:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 377 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
(ii) MOLECULE TYPE: cDNA	
<pre>(vi) ORIGINAL SOURCE: (A) ORGANISM: Homo sapiens</pre>	

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:65:

ACAACAANAA NTCCCTTCTT	TAGGCCACTG	ATGGAAACCT	GGAACCCCCT	TTTGATGGCA	60
GCATGGCGTC CTAGGCCTTG	ACACAGCGGC	TGGGGTTTGG	GCTNTCCCAA	ACCGCACACC	120
CCAACCCTGG TCTACCCACA	NTTCTGGCTA	TGGGCTGTCT	CTGCCACTGA	ACATCAGGGT	180
TCGGTCATAA NATGAAATCO	CAANGGGGAC	AGAGGTCAGT	AGAGGAAGCT	CAATGAGAAA	240
GGTGCTGTTT GCTCAGCCAG	AAAACAGCTG	CCTGGCATTC	GCCGCTGAAC	TATGAACCCG	300
TGGGGTGAA CTACCCCCAN	GAGGAATCAT	GCCTGGGCGA	TGCAANGGTG	CCAACAGGAG	360
GGGCGGAGG AGCATGT					377

- (2) INFORMATION FOR SEQ ID NO:66:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 305 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (vi) ORIGINAL SOURCE:
 - (A) ORGANISM: Homo sapiens
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:66:

ACGCCTTTCC CTCAGAATTC	AGGGAAGAGA	CTGTCGCCTG	CCTTCCTCCG	TTGTTGCGTG	60
AGAACCCGTG TGCCCCTTCC	CACCATATCC	ACCCTCGCTC	CATCTTTGAA	CTCAAACACG	120
AGGAACTAAC TGCACCCTGG	TCCTCTCCCC	AGTCCCCAGT	TCACCCTCCA	TCCCTCACCT	180
TCCTCCACTC TAAGGGATAT	CAACACTCCC	CAGCACAGGG	GCCCTGAATT	TATGTGGTTT	240
TCCTCCACTC TAAGGGATAT TTATATATTT TTTAATAAGA	TOTAL CETTER	CTCATTTTT	ΔΔΤΔΔΔGTCT	GAAGAATTAC	300
TTATATATTT TTTAATAAGA	TGCACTITAL	GICATITIT	AMIMBIOIOI	0.2	305
TGTTT					

- (2) INFORMATION FOR SEQ ID NO:67:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 385 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (vi) ORIGINAL SOURCE:
 - (A) ORGANISM: Homo sapiens
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:67:

ACTACACACA CTCCACTTGC	CCTTGTGAGA	CACTTTGTCC	CAGCACTTTA	GGAATGCTGA	60
GGTCGGACCA GCCACATCTC	ATGTGCAAGA	TTGCCCAGCA	GACATCAGGT	CTGAGAGTTC	120
CCCTTTTAAA AAAGGGGACT	TGCTTAAAAA	AGAAGTCTAG	CCACGATTGT	GTAGAGCAGC	180
TGTGCTGTGC TGGAGATTCA	CTTTTGAGAG	AGTTCTCCTC	TGAGACCTGA	TCTTTAGAGG	240
CTGGGCAGTC TTGCACATGA	CATGGGGGCTG	GTCTGATCTC	AGCACTCCTT	AGTCTGCTTG	300
CCTCTCCCAG GGCCCCAGCC	TGGCCACACC	TGCTTACAGG	GCACTCTCAG	ATGCCCATAC	360
CATAGTTTCT GTGCTAGTGG					385
CATAGITICI GIGCIAGIGG	ACCOL				

- (2) INFORMATION FOR SEQ ID NO:68:
 - (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 73 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: single(D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
<pre>(vi) ORIGINAL SOURCE: (A) ORGANISM: Homo sapiens</pre>	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:68:	
ACTTAACCAG ATATATTTTT ACCCCAGATG GGGATATTCT TTGTAAAAAA TGAAAATAAA GTTTTTTTAA TGG	60 73
(2) INFORMATION FOR SEQ ID NO:69:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 536 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
(ii) MOLECULE TYPE: cDNA	
<pre>(vi) ORIGINAL SOURCE: (A) ORGANISM: Homo sapiens</pre>	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:69:	
ACTAGTCCAG TGTGGTGGAA TTCCATTGTG TTGGGGGCTC TCACCCTCCT CTCCTGCAGC TCCAGCTTTG TGCTCTGCCT CTGAGGAGAC CATGGCCCAG CATCTGAGTA CCCTGCTGCT CCTGCTGGCC ACCCTAGCTG TGGCCCTGGC CTGGAGCCCC AAGGAGGAGG ATAGGATAAT CCCGGGTGGC ATCTATAACG CAGACCTCAA TGATGAGTGG GTACAGCGTG CCCTTCACTT CGCCATCAGC GAGTATAACA AGGCCACCAA AGATGACTAC TACAGACGTC CGCTGCGGGT ACTAAGAGCC AGGCAACAGA CCGTTGGGGG GGTGAATTAC TTCTTCGACG TAGAGGTGGG CCGAACCATA TGTACCAAGT CCCAGCCCAA CTTGGACACC TGTGCCTTCC ATGAACAGCC AGAACTGCAG AAGAAACAGT TGTGCTCTTT CGAGGATCTAC GAAGTTCCCT GGGGAGAACA GAANGTCCCT GGGTGAAATC CAGGTGTCAA GAAATCCTAN GGATCTGTTG CCAGGC	60 120 180 240 300 360 420 480 536
(2) INFORMATION FOR SEQ ID NO:70:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 477 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
(ii) MOLECULE TYPE: cDNA	
(vi) ORIGINAL SOURCE:(A) ORGANISM: Homo sapiens	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:70:	
ATGACCCCTA ACAGGGGCCC TCTCAGCCCT CCTAATGACC TCCGGCCTAG CCATGTGATT TCACTTCCAC TCCATAACGC TCCTCATACT AGGCCTACTA ACCAACACAC TAACCATATA CCAATGATGG CGCGATGTAA CACGAGAAAG CACATACCAA GGCCACCACA CACCACCTGT	60 120 180

CCAAAAAGGC	CTTCGATACG	GGATAATCCT	ATTTATTACC	TCAGAAGTTT	TTTTCTTCGC	240
AGGGATTTTT	CTGAGCCTTT	TACCACTCCA	GCCTAGCCCC	TACCCCCAA	CTAGGAGGGC	300
ACTGGCCCCC	AACAGGCATC	ACCCCGCTAA	ATCCCCTAGA	AGTCCCACTC	CTAAACACAT	360
CCGTATTACT	CGCATCAGGA	GTATCAATCA	CCTGAGCTCA	CCATAGTCTA	ATAGAAAACA	420
ACCGAAACCA	AATTATTCAA	AGCACTGCTT	ATTACAATTT	TACTGGGTCT	CTATTTT	. 477

- (2) INFORMATION FOR SEQ ID NO:71:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 533 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (vi) ORIGINAL SOURCE:
 - (A) ORGANISM: Homo sapiens
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:71:

AGAGCTATAG	GTACAGTGTG	ATCTCAGCTT	TGCAAACACA	TTTTCTACAT	AGATAGTACT	60
		AGAAAGAAAT				120
		TGGCACCCTT				180
ATTATTTCCA	TAACTTAAAA	AGTGAGTTTG	AAAAAGAAAA	TCTCCAGCAA	GCATCTCATT	240
		TTAAAAATAC				300
AAATAGGTGT	GACCCTACTA	ATAATTATTA	GAAATACATT	TAAAAACATC	GAGTACCTCA	360
AGTCAGTTTG	CCTTGAAAAA	TATCAAATAT	AACTCTTAGA	GAAATGTACA	TAAAAGAATG	420
CTTCGTAATT	TTGGAGTANG	AGGTTCCCTC	CTCAATTTTG	TATTTTTAAA	AAGTACATGG	480
TAAAAAAAA	AATTCACAAC	AGTATATAAG	GCTGTAAAAT	GAAGAATTCT	GCC	533

- (2) INFORMATION FOR SEQ ID NO:72:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 511 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (vi) ORIGINAL SOURCE:
 - (A) ORGANISM: Homo sapiens
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:72:

TATTACGGAA	AAACACACCA	CATAATTCAA	CTANCAAAGA	ANACTGCTTC	AGGGCGTGTA	60
AAATGAAAGG	CTTCCAGGCA	GTTATCTGAT	TAAAGAACAC	TAAAAGAGGG	ACAAGGCTAA	120
AAGCCGCAGG	ATGTCTACAC	TATANCAGGC	GCTATTTGGG	TTGGCTGGAG	GAGCTGTGGA	180
AAACATGGAN	AGATTGGTGC	TGGANATCGC	CGTGGCTATT	CCTCATTGTT	ATTACANAGT	240
		TGGTTTGAAA				300
		CCAAACCCAG				360
		ATGAAGAAAA				420
ATTTCTCTCC	ATTGCAGCNA	NAAACCCGTT	CTTCTAAGCA	AACNCAGGTG	ATGATGGCNA	480
AAATACACCC	CCTCTTGAAG	NACCNGGAGG	Α			511

(2) INFORMATION FOR SEQ ID NO:73:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 499 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (vi) ORIGINAL SOURCE:
 - (A) ORGANISM: Homo sapiens
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:73:

CAGTGCCAGC ACTGGTGCCA GTACCAGTAC CAATAACAGT GCCAGTGCCA GTGCCAGCAC 60 CAGTGGTGGC TTCAGTGCTG GTGCCAGCCT GACCGCCACT CTCACATTTG GGCTCTTCGC 120 TGGCCTTGGT GGAGCTGGTG CCAGCACCAG TGGCAGCTCT GGTGCCTGTG GTTTCTCCTA 180 240 CAAGTGAGAT TTTAGATATT GTTAATCCTG CCAGTCTTTC TCTTCAAGCC AGGGTGCATC CTCAGAAACC TACTCAACAC AGCACTCTAG GCAGCCACTA TCAATCAATT GAAGTTGACA 300 CTCTGCATTA AATCTATTTG CCATTTCTGA AAAAAAAAA AAAAAAAGGG CGGCCGCTCG 360 ANTCTAGAGG GCCCGTTTAA ACCCGCTGAT CAGCCTCGAC TGTGCCTTCT ANTTGCCAGC 420 CATCTGTTGT TTGCCCCTCC CCCGNTGCCT TCCTTGACCC TGGAAAGTGC CACTCCCACT 480 499 GTCCTTTCCT AANTAAAAT

- (2) INFORMATION FOR SEQ ID NO:74:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 537 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (vi) ORIGINAL SOURCE:
 - (A) ORGANISM: Homo sapiens
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:74:

TTTCATAGGA GAACACACTG AGGAGATACT TGAAGAATTT GGATTCAGCC GCGAAGAGAT	60
TTATCAGCTT AACTCAGATA AAATCATTGA AAGTAATAAG GTAAAAGCTA GTCTCTAACT	120
TCCAGGCCCA CGGCTCAAGT GAATTTGAAT ACTGCATTTA CAGTGTAGAG TAACACATAA	180
	240
AAAGAATTAC AGACTCTGAT TCTACAGTGA TGATTGAATT CTAAAAATGG TAATCATTAG	300
GGCTTTTGAT TTATAANACT TTGGGTACTT ATACTAAATT ATGGTAGTTA TACTGCCTTC	360
CAGTTTGCTT GATATATTTG TTGATATTAA GATTCTTGAC TTATATTTTG AATGGGTTCT	420
ACTGAAAAAN GAATGATATA TTCTTGAAGA CATCGATATA CATTTATTTA CACTCTTGAT	480
TCTACAATGT AGAAAATGAA GGAAATGCCC CAAATTGTAT GGTGATAAAA GTCCCGT	537

- (2) INFORMATION FOR SEQ ID NO:75:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 467 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA

(vi) ORIGINAL SOURCE:

(A) ORGANISM: Homo sapiens

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:75:

CAAANACAAT	TGTTCAAAAG	ATGCAAATGA	TACACTACTG	CTGCAGCTCA	CAAACACCTC	60
TGCATATTAC	ACGTACCTCC	TCCTGCTCCT	CAAGTAGTGT	${\tt GGTCTATTTT}$	GCCATCATCA	120
CCTGCTGTCT	GCTTAGAAGA	ACGGCTTTCT	GCTGCAANGG	AGAGAAATCA	TAACAGACGG	180
TGGCACAAGG	AGGCCATCTT	TTCCTCATCG	GTTATTGTCC	CTAGAAGCGT	CTTCTGAGGA	240
TCTAGTTGGG	CTTTCTTTCT	GGGTTTGGGC	CATTTCANTT	CTCATGTGTG	TACTATTCTA	300
TCATTATTGT	ATAACGGTTT	TCAAACCNGT	GGGCACNCAG	AGAACCTCAC	TCTGTAATAA	360
CAATGAGGAA	TAGCCACGGT	GATCTCCAGC	ACCAAATCTC	TCCATGTTNT	TCCAGAGCTC	420
CTCCAGCCAA	CCCAAATAGC	CGCTGCTATN	GTGTAGAACA	TCCCTGN		467

(2) INFORMATION FOR SEQ ID NO:76:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 400 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (vi) ORIGINAL SOURCE:
 - (A) ORGANISM: Homo sapiens
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:76:

AAGCTGACAG	CATTCGGGCC	GAGATGTCTC	GCTCCGTGGC	CTTAGCTGTG	CTCGCGCTAC	60
TCTCTCTTTC	TGGCCTGGAG	GCTATCCAGC	GTACTCCAAA	GATTCAGGTT	TACTCACGTC	120
ATCCAGCAGA	GAATGGAAAG	TCAAATTTCC	TGAATTGCTA	TGTGTCTGGG	TTTCATCCAT	180
CCGACATTGA	AGTTGACTTA	CTGAAGAATG	GAGAGAGAAT	TGAAAAAGTG	GAGCATTCAG	240
ACTTGTCTTT	CAGCAAGGAC	TGGTCTTTCT	ATCTCTTGTA	CTACACTGAA	TTCACCCCCA	300
CTGAAAAAGA	TGAGTATGCC	TGCCGTGTGA	ACCATGTGAC	TTTGTCACAG	CCCAAGATNG	360
TTNAGTGGGA	TCGANACATG	TAAGCAGCAN	CATGGGAGGT			400

(2) INFORMATION FOR SEQ ID NO:77:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 248 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (vi) ORIGINAL SOURCE:
 - (A) ORGANISM: Homo Sapiens
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:77:

CTGGAGTGCC	TTGGTGTTTC	AAGCCCCTGC	AGGAAGCAGA	ATGCACCTTC	TGAGGCACCT	60
CCAGCTGCCC	CGGCGGGGGA	TGCGAGGCTC	GGAGCACCCT	TGCCCGGCTG	TGATTGCTGC	120
CAGGCACTGT	TCATCTCAGC	TTTTCTGTCC	CTTTGCTCCC	GGCAAGCGCT	TCTGCTGAAA	180
GTTCATATCT	GGAGCCTGAT	GTCTTAACGA	ATAAAGGTCC	CATGCTCCAC	CCGAAAAAA	240
ААААААА						248

(2) INFORMATION FOR SEQ ID NO:78: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 201 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (vi) ORIGINAL SOURCE: (A) ORGANISM: Homo sapiens (xi) SEQUENCE DESCRIPTION: SEQ ID NO:78: ACTAGTCCAG TGTGGTGGAA TTCCATTGTG TTGGGCCCAA CACAATGGCT ACCTTTAACA 60 TCACCCAGAC CCCGCCCTGC CCGTGCCCCA CGCTGCTGCT AACGACAGTA TGATGCTTAC 120 TCTGCTACTC GGAAACTATT TTTATGTAAT TAATGTATGC TTTCTTGTTT ATAAATGCCT 180 201 **САТТТААААА ААААААААА** А (2) INFORMATION FOR SEQ ID NO:79: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 552 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (vi) ORIGINAL SOURCE: (A) ORGANISM: Homo sapiens (xi) SEQUENCE DESCRIPTION: SEQ ID NO:79: TCCTTTTGTT AGGTTTTTGA GACAACCCTA GACCTAAACT GTGTCACAGA CTTCTGAATG 60 TTTAGGCAGT GCTAGTAATT TCCTCGTAAT GATTCTGTTA TTACTTTCCT ATTCTTTATT 120 CCTCTTTCTT CTGAAGATTA ATGAAGTTGA AAATTGAGGT GGATAAATAC AAAAAGGTAG 180 TGTGATAGTA TAAGTATCTA AGTGCAGATG AAAGTGTGTT ATATATATCC ATTCAAAATT 240 ATGCAAGTTA GTAATTACTC AGGGTTAACT AAATTACTTT AATATGCTGT TGAACCTACT 300 CTGTTCCTTG GCTAGAAAA ATTATAAACA GGACTTTGTT AGTTTGGGAA GCCAAATTGA 360 TAATATTCTA TGTTCTAAAA GTTGGGCTAT ACATAAANTA TNAAGAAATA TGGAATTTTA 420 TTCCCAGGAA TATGGGGTTC ATTTATGAAT ANTACCCGGG ANAGAAGTTT TGANTNAAAC 480 CNGTTTTGGT TAATACGTTA ATATGTCCTN AATNAACAAG GCNTGACTTA TTTCCAAAAA 540 552 AAAAAAAAA AA (2) INFORMATION FOR SEQ ID NO:80: (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 476 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (vi) ORIGINAL SOURCE:
 - (A) ORGANISM: Homo sapiens

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:80:

ACAGGGATTT	GAGATGCTAA	GGCCCCAGAG	ATCGTTTGAT	CCAACCCTCT	TATTTTCAGA	60
GGGGAAAATG	GGGCCTAGAA	GTTACAGAGC	ATCTAGCTGG	TGCGCTGGCA	CCCCTGGCCT	120
CACACAGACT	CCCGAGTAGC	TGGGACTACA	GGCACACAGT	CACTGAAGCA	GGCCCTGTTT	180
GCAATTCACG	TTGCCACCTC	CAACTTAAAC	ATTCTTCATA	TGTGATGTCC	TTAGTCACTA	240
AGGTTAAACT	TTCCCACCCA	GAAAAGGCAA	CTTAGATAAA	ATCTTAGAGT	ACTTTCATAC	300
TCTTCTAAGT	CCTCTTCCAG	CCTCACTTTG	AGTCCTCCTT	GGGGGTTGAT	AGGAANTNTC	360
		TCTCTATCCA	•			420
GCTGAAAAAA	TTAAAATGTT	CTGGTTTCNC	TTTAAAAAAAA	AAAAAAAAA	AAAAA	476

(2) INFORMATION FOR SEQ ID NO:81:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 232 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (vi) ORIGINAL SOURCE:
 - (A) ORGANISM: Homo sapiens
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:81:

TTTTTTTTT	TATGCCNTCN	CTGTGGNGTT	ATTGTTGCTG	CCACCCTGGA	GGAGCCCAGT	60
TTCTTCTGTA	TCTTTCTTTT	CTGGGGGATC	TTCCTGGCTC	TGCCCCTCCA	TTCCCAGCCT	120
CTCATCCCCA	TCTTGCACTT	TTGCTAGGGT	TGGAGGCGCT	TTCCTGGTAG	CCCCTCAGAG	180
ACTCAGTCAG	CGGGAATAAG	TCCTAGGGGT	GGGGGGTGTG	GCAAGCCGGC	CT	232

- (2) INFORMATION FOR SEQ ID NO:82:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 383 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (vi) ORIGINAL SOURCE:
 - (A) ORGANISM: Homo sapiens
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:82:

AGGCGGGAGC	AGAAGCTAAA	GCCAAAGCCC	AAGAAGAGTG	GCAGTGCCAG	CACTGGTGCC	60
AGTACCAGTA	CCAATAACAT	GCCAGTGCCA	GTGCCAGCAC	CAGTGGTGGC	TTCAGTGCTG	120
GTGCCAGCCT	GACCGCCACT	CTCACATTTG	GGCTCTTCGC	TGGCCTTGGT	GGAGCTGGTG	180
CCAGCACCAG	TGGCAGCTCT	GGTGCCTGTG	GTTTCTCCTA	CAAGTGAGAT	TTTAGATATT	240
GTTAATCCTG	CCAGTCTTTC	TCTTCAAGCC	AGGGTGCATC	CTCAGAAACC	TACTCAACAC	300
AGCACTCTNG	GCAGCCACTA	TCAATCAATT	GAAGTTGACA	CTCTGCATTA	AATCTATTTG	360
CCATTTCAAA	AAAAAAAAA	AAA				383

- (2) INFORMATION FOR SEQ ID NO:83:
 - (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 494 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (vi) ORIGINAL SOURCE:
 - (A) ORGANISM: Homo sapiens
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:83:

ACCGAATTGG	GACCGCTGGC	TTATAAGCGA	TCATGTCCTC	CAGTATTACC	TCAACGAGCA	60
GGGAGATCGA	GTCTATACGC	TGAAGAAATT	TGACCCGATG	GGACAACAGA	CCTGCTCAGC	120
CCATCCTGCT	CGGTTCTCCC	CAGATGACAA	ATACTCTCGA	CACCGAATCA	CCATCAAGAA	180
ACGCTTCAAG	GTGCTCATGA	CCCAGCAACC	GCGCCCTGTC	CTCTGAGGGT	CCTTAAACTG	240
ATGTCTTTTC	TGCCACCTGT	TACCCCTCGG	AGACTCCGTA	ACCAAACTCT	TCGGACTGTG	300
AGCCCTGATG	CCTTTTTGCC	AGCCATACTC	TTTGGCNTCC	AGTCTCTCGT	GGCGATTGAT	360
TATGCTTGTG	TGAGGCAATC	ATGGTGGCAT	CACCCATNAA	GGGAACACAT	TTGANTTTTT	420
TTTCNCATAT	TTTAAATTAC	NACCAGAATA	NTTCAGAATA	AATGAATTGA	AAAACTCTTA	480
АААААААА	AAAA					494

- (2) INFORMATION FOR SEQ ID NO:84:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 380 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (vi) ORIGINAL SOURCE:
 - (A) ORGANISM: Homo sapiens
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:84:

GCTGGTAGCC	TATGGCGTGG	CCACGGANGG	GCTCCTGAGG	CACGGGACAG	TGACTTCCCA	60
AGTATCCTGC	GCCGCGTCTT	CTACCGTCCC	TACCTGCAGA	TCTTCGGGCA	GATTCCCCAG	120
				CGTCGGAGCC		180
GCACACCCTC	CTGGGGCCCA	GGCGGGCACC	TGCGTCTCCC	AGTATGCCAA	CTGGCTGGTG	240
				TGCTGGTCAC		300
CCATGTTCAG	TTACACATTC	GGCAAAGTAC	AGGGCAACAG	CNATCTCTAC	TGGGAAGGCC	360
	CCTCATCCGG					380

- (2) INFORMATION FOR SEQ ID NO:85:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 481 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (vi) ORIGINAL SOURCE:
 - (A) ORGANISM: Homo sapiens

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:85:

GAGTTAGCTC	CTCCACAACC	TTGATGAGGT	CGTCTGCAGT	GGCCTCTCGC	TTCATACCGC	60
TNCCATCGTC	ATACTGTAGG	TTTGCCACCA	CCTCCTGCAT	CTTGGGGCGG	CTAATATCCA	120
GGAAACTCTC	AATCAAGTCA	CCGTCNATNA	AACCTGTGGC	TGGTTCTGTC	TTCCGCTCGG	180
TGTGAAAGGA	TCTCCAGAAG	GAGTGCTCGA	TCTTCCCCAC	ACTTTTGATG	ACTTTATTGA	240
GTCGATTCTG	CATGTCCAGC	AGGAGGTTGT	ACCAGCTCTC	TGACAGTGAG	GTCACCAGCC	300
CTATCATGCC	NTTGAACGTG	CCGAAGAACA	CCGAGCCTTG	TGTGGGGGGT	GNAGTCTCAC	360
		NAGCCGTGGC				420
AAAGAACACC	TCCTGGAAGT	GCTNGCCGCT	CCTCGTCCNT	TGGTGGNNGC	GCNTNCCTTT	480
T						481

- (2) INFORMATION FOR SEQ ID NO:86:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 472 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (vi) ORIGINAL SOURCE:
 - (A) ORGANISM: Homo sapiens
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:86:

AACATCTTCC TGTATAATGC TGTGTAATAT CGATCCGATN TTGTCTGCTG	AGAATTCATT	60
ACTTGGAAAA GCAACTTNAA GCCTGGACAC TGGTATTAAA ATTCACAATA T	rgcaacactt 1	20
TAAACAGTGT GTCAATCTGC TCCCTTACTT TGTCATCACC AGTCTGGGAA		08
CCCTATTCAC ACCTGTTAAA AGGGCGCTAA GCATTTTTGA TTCAACATCT	FTTTTTTGA 2	40
CACAAGTCCG AAAAAAGCAA AAGTAAACAG TTNTTAATTT GTTAGCCAAT		00
CATGGGACAG AGCCATTTGA TTTAAAAAGC AAATTGCATA ATATTGAGCT T		60
ATATNTGAGC GGAAGANTAG CCTTTCTACT TCACCAGACA CAACTCCTTT		20
TGTTNACNAA AGTTATGTCT CTTACAGATG GGATGCTTTT GTGGCAATTC		72

- (2) INFORMATION FOR SEQ ID NO:87:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 413 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (vi) ORIGINAL SOURCE:
 - (A) ORGANISM: Homo sapiens
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:87:

AGAAACCAGT	ATCTCTNAAA	ACAACCTCTC	ATACCTTGTG	GACCTAATTT	TGTGTGCGTG	60
	CGCATATTAT					120
	ATCTATATCT					180
TTGTCTTCTG	TGTAAATGGT	ACTAGAGAAA	ACACCTATNT	TATGAGTCAA	TCTAGTTNGT	240
TTTATTCGAC	ATGAAGGAAA	TTTCCAGATN	ACAACACTNA	CAAACTCTCC	CTTGACTAGG	300
GGGGACAAAG	AAAAGCANAA	CTGAACATNA	GAAACAATTN	CCTGGTGAGA	AATTNCATAA	360
ACAGAAATTG	GGTNGTATAT	TGAAANANNG	CATCATTNAA	ACGTTTTTTT	TTT	413

(2) INFORMATION FOR SEQ ID NO:88:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 448 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (vi) ORIGINAL SOURCE:
 - (A) ORGANISM: Homo sapiens
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:88:

CGCAGCGGGT	CCTCTCTATC	TAGCTCCAGC	CTCTCGCCTG	CCCCACTCCC	CGCGTCCCGC	60
GTCCTAGCCN	ACCATGGCCG	GGCCCCTGCG	CGCCCCGCTG	CTCCTGCTGG	CCATCCTGGC	120
CGTGGCCCTG	GCCGTGAGCC	CCGCGGCCGG	CTCCAGTCCC	GGCAAGCCGC	CGCGCCTGGT	180
GGGAGGCCCA	TGGACCCCGC	GTGGAAGAAG	AAGGTGTGCG	GCGTGCACTG	GACTTTGCCG	240
TCGGCNANTA	CAACAAACCC	GCAACNACTT	TTACCNAGCN	CGCGCTGCAG	GTTGTGCCGC	300
CCCAANCAAA	TTGTTACTNG	GGGTAANTAA	TTCTTGGAAG	TTGAACCTGG	GCCAAACNNG	360
TTTACCAGAA	CCNAGCCAAT	TNGAACAATT	NCCCCTCCAT	AACAGCCCCT	TTTAAAAAGG	420
	TGNTCTTTTC					448

- (2) INFORMATION FOR SEQ ID NO:89:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 463 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (vi) ORIGINAL SOURCE:
 - (A) ORGANISM: Homo sapiens
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:89:

GAATTTTGTG CACTGGCC	AC TGTGATGGAA	CCATTGGGCC	AGGATGCTTT	GAGTTTATCA	60
GTAGTGATTC TGCCAAAG					120
AGAGGTCTAG GTCTGCAT	AT CAGCAGACAG	TTTGTCCGTG	TATTTTGTAG	CCTTGAAGTT	180
CTCAGTGACA AGTTNNTT					240
TTTNATGTTN AGACTTGC					300
TTTAACAAAA TAGAANNA					360
AATTCTCTCC CCATANNA					420
AATTCHUANA ANTTCAGN					463

- (2) INFORMATION FOR SEQ ID NO:90:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 400 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA

- (vi) ORIGINAL SOURCE:
 - (A) ORGANISM: Homo sapiens
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:90:

AGGGATTGAA	GGTCTNTTNT	ACTGTCGGAC	TGTTCANCCA	CCAACTCTAC	AAGTTGCTGT	60
CTTCCACTCA	CTGTCTGTAA	GCNTNTTAAC	CCAGACTGTA	TCTTCATAAA	TAGAACAAAT	120
TCTTCACCAG	TCACATCTTC	TAGGACCTTT	TTGGATTCAG	TTAGTATAAG	CTCTTCCACT	180
TCCTTTGTTA	AGACTTCATC	TGGTAAAGTC	TTAAGTTTTG	TAGAAAGGAA	TTTAATTGCT	240
				ACAACCCACC		300
TTGTGCATCC	$\mathbf{ATTTTAAATA}$	TACTTAATAG	GGCATTGGTN	CACTAGGTTA	AATTCTGCAA	360
GAGTCATCTG	TCTGCAAAAG	TTGCGTTAGT	ATATCTGCCA			400

- (2) INFORMATION FOR SEQ ID NO:91:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 480 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (vi) ORIGINAL SOURCE:
 - (A) ORGANISM: Homo sapiens
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:91:

				TATNCAGTGC		60
GGTCTACCCC	ACATGGGAGC	AGCATGCCGT	AGNTATATAA	GGTCATTCCC	TGAGTCAGAC	120
ATGCCTCTTT	GACTACCGTG	TGCCAGTGCT	GGTGATTCTC	ACACACCTCC	NNCCGCTCTT	180
				ACTTACAAAT		240
GACACTTGAA	AGGTGTAACA	AAGCGACTCT	TGCATTGCTT	TTTGTCCCTC	CGGCACCAGT	300
				GATCTGTAGC		360
				AGCAACTCTT		420
				ATATNTTACT		480

- (2) INFORMATION FOR SEQ ID NO:92:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 477 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (vi) ORIGINAL SOURCE:
 - (A) ORGANISM: Homo sapiens
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:92:

ATACAGCCCA	NATCCCACCA	CGAAGATGCG	CTTGTTGACT	GAGAACCTGA	TGCGGTCACT	60
					TGCACTCCTT	120
					GGTTGACGGT	
					GTGCGGGACC	

TGCAGCGAAA	CTCCTCGATG	GTCATGAGCG	GGAAGCGAAT	GANGCCCAGG	GCCTTGCCCA	300
GAACCTTCCG	CCTGTTCTCT	GGCGTCACCT	GCAGCTGCTG	CCGCTNACAC	TCGGCCTCGG	360
ACCAGCGGAC	AAACGGCGTT	GAACAGCCGC	ACCTCACGGA	TGCCCANTGT	GTCGCGCTCC	420
AGGAACGGCN	CCAGCGTGTC	CAGGTCAATG	TCGGTGAANC	CTCCGCGGGT	AATGGCG	477

- (2) INFORMATION FOR SEQ ID NO:93:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 377 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (vi) ORIGINAL SOURCE:
 - (A) ORGANISM: Homo sapiens
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:93:

GAACGGCTGG	ACCTTGCCTC	GCATTGTGCT	GCTGGCAGGA	ATACCTTGGC	AAGCAGCTCC	60
		GCTGCCGCCC				120
CGCCTCAATG	CAGAACCANT	AGTGGGAGCA	CTGTGTTTAG	AGTTAAGAGT	GAACACTGTN	180
TGATTTTACT	TGGGAATTTC	CTCTGTTATA	TAGCTTTTCC	CAATGCTAAT	TTCCAAACAA	240
		TGCCTGTTNA				300
ANCANANTAT	TACTGTTACA	TATACTGCTT	GCAANTTCTG	TATTTATTGG	TNCTCTGGAA	360
ATAAATATAT		111111010011	•			377
WINUVIVI	TUTTION					

- (2) INFORMATION FOR SEQ ID NO:94:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 495 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (vi) ORIGINAL SOURCE:
 - (A) ORGANISM: Homo sapiens
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:94:

~~~~~~~	COMMA COCKO	CAGTTCCCAG	TCCAACAAAC	AGGCCAGGAG	AANTGCGTGC	60
CCCTTTGAGG	GGTTAGGGTC	CAGTICCCAG	IGGAAGAAAC	ACCCCACCAG	mamas accom	120
CGAGCTGANG	CAGATTTCCC	ACAGTGACCC	CAGAGCCCTG	GGCTATAGTC	TCTGACCCCT	
CCAAGGAAAG	ACCACCTTCT	GGGGACATGG	GCTGGAGGGC	AGGACCTAGA	GGCACCAAGG	180
GAAGGCCCCA	TTCCGGGGCT	GTTCCCCGAG	GAGGAAGGGA	AGGGGCTCTG	TGTGCCCCCC	240
	COCCOCCT	CCTGGGATCA	NACACCCCTT	CACCTCTATC	CCCACACAAA	300
ACGAGGAANA	GGCCCTGANT	CCIGGGAICA	NACACCCCII	CACGIGIATE		260
TGCAAGCTCA	CCAAGGTCCC	CTCTCAGTCC	CTTCCCTACA	CCCTGAACGG	NCACTGGCCC	360
202220200	ACANCANCCA	CCCGCCATGG	CCAATCTNCT	CAAGGAATCG	CNGGGCAACG	420
ACACCCACCC	AGANCANCCA	CCCGCCATGG	COMMICING			480
TGGACTCTNG	TCCCNNAAGG	GGGCAGAATC	TCCAATAGAN	GGANNGAACC	CTTGCTNANA	
AAAAAAAAA						495
AAAAAAAANA						

- (2) INFORMATION FOR SEQ ID NO:95:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 472 base pairs
    - (B) TYPE: nucleic acid

- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (vi) ORIGINAL SOURCE:
  - (A) ORGANISM: Homo sapiens
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:95:

GGTTACTTGG	TTTCATTGCC	ACCACTTAGT	GGATGTCATT	TAGAACCATT	TTGTCTGCTC	60
CCTCTGGAAG	CCTTGCGCAG	AGCGGACTTT	GTAATTGTTG	GAGAATAACT	GCTGAATTTT	120
				AATATGAAAA		180
				TCATACTGTA		240
				AATTATGATT		300
						360
				TATGCCTTTT		
				TAAGAAAATG		420
TTTANTTCAN	TAATTTCTTT	CCTTGTTTAC	GTTAATTTTG	AAAAGAATGC	AT	472

- (2) INFORMATION FOR SEQ ID NO:96:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 476 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: single
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (vi) ORIGINAL SOURCE:
    - (A) ORGANISM: Homo sapiens
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:96:

CTGAAGCATT	TCTTCAAACT	TNTCTACTTT	TGTCATTGAT	ACCTGTAGTA	AGTTGACAAT	60
GTGGTGAAAT	TTCAAAATTA	TATGTAACTT	CTACTAGTTT	TACTTTCTCC	CCCAAGTCTT	120
TTTTAACTCA	TGATTTTTAC	ACACACAATC	CAGAACTTAT	TATATAGCCT	CTAAGTCTTT	180
ATTCTTCACA	GTAGATGATG	AAAGAGTCCT	CCAGTGTCTT	GNGCANAATG	TTCTAGNTAT	240
				CAGTGGGACT		300
TGTGTTAGTC	TCAATTCCTA	CCACACTGAG	GGAGCCTCCC	AAATCACTAT	ATTCTTATCT	360
GCAGGTACTC	CTCCAGAAAA	ACNGACAGGG	CAGGCTTGCA	TGAAAAAGTN	ACATCTGCGT	420
TACAAAGTCT	ATCTTCCTCA	NANGTCTGTN	AAGGAACAAT	TTAATCTTCT	AGCTTT	476

- (2) INFORMATION FOR SEQ ID NO:97:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 479 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: single
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (vi) ORIGINAL SOURCE:
    - (A) ORGANISM: Homo sapiens
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:97:

AAATAATGCT CAATCGCAAA GATTGTGCTC CAGGCTACTA GTGATTATNA	GCAAACTTAA TCAAAACTCA CTTCGGATAT GAATTCTGTT AATTAATCAC	GATCTTGAGT TGTTCTTATG CAAGTGCTCA GATTGTTTCT ATTGGATATN AAATTTCACT	CAAAATGGAA TCTGTTGTAG CANATCTTGG TGAGAGCATG TATACCTGCT	CGCTAATGAA ATTTAGTGTA GCAATNTTCC AAATTTTTAA ATCAGCAGCT	ACACAGCTTA ATAAGACTTA TTAGTCAAAT NAATACACTT AGAAAAACAT	60 120 180 240 300 360 420
NTNNTTTTTA	NATCAAAGTA	TTTTGTGTTT GACNACTANT	${\tt GGAANTGTNN}$	AAATGAAATC	TGAATGTGGG	420 479

- (2) INFORMATION FOR SEQ ID NO:98:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 461 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: single
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (vi) ORIGINAL SOURCE:
    - (A) ORGANISM: Homo sapiens
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:98:

AGTGACTTGT	CCTCCAACAA	AACCCCTTGA	TCAAGTTTGT	GGCACTGACA	ATCAGACCTA	60
TGCTAGTTCC	TGTCATCTAT	TCGCTACTAA	ATGCAGACTG	GAGGGGACCA	AAAAGGGGCA	120
		TTGGAGCCTG				180
AGTGATTCAG	TTTCCTCTAC	GGATGAGAGA	CTGGCTCAAG	AATATCCTCA	TGCAGCTTTA	240
TGAAGCCACT	CTGAACACGC	TGGTTATCTA	GATGAGAACA	GAGAAATAAA	GTCAGAAAAT	300
TTACCTGGAG	AAAAGAGGCT	TTGGCTGGGG	ACCATCCCAT	TGAACCTTCT	CTTAAGGACT	360
		TTGTGTATCC				420
		CCTGAACTTG				461

- (2) INFORMATION FOR SEQ ID NO:99:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 171 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: single
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (vi) ORIGINAL SOURCE:
    - (A) ORGANISM: Homo sapiens
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:99:

GTGGCCGCGC	GCAGGTGTTT	CCTCGTACCG	CAGGGCCCCC	TCCCTTCCCC	AGGCGTCCCT	60
CGGCGCCTCT	GCGGGCCCGA	GGAGGAGCGG	CTGGCGGGTG	GGGGGAGTGT	GACCCACCCT	120
		AGCGATCTGA				171

- (2) INFORMATION FOR SEQ ID NO:100:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 269 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: single

(D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (vi) ORIGINAL SOURCE: (A) ORGANISM: Homo sapiens (xi) SEQUENCE DESCRIPTION: SEQ ID NO:100: CGGCCGCAAG TGCAACTCCA GCTGGGGCCG TGCGGACGAA GATTCTGCCA GCAGTTGGTC 60 CGACTGCGAC GACGGCGGCG GCGACAGTCG CAGGTGCAGC GCGGGCGCCT GGGGTCTTGC 120 AAGGCTGAGC TGACGCCGCA GAGGTCGTGT CACGTCCCAC GACCTTGACG CCGTCGGGGA 180 CAGCCGGAAC AGAGCCCGGT GAAGCGGGAG GCCTCGGGGA GCCCCTCGGG AAGGGCGGCC 240 269 CGAGAGATAC GCAGGTGCAG GTGGCCGCC (2) INFORMATION FOR SEQ ID NO:101: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 405 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (vi) ORIGINAL SOURCE: (A) ORGANISM: Homo sapiens (xi) SEQUENCE DESCRIPTION: SEQ ID NO:101: 60 TTTTTTTTT TTTTGGAATC TACTGCGAGC ACAGCAGGTC AGCAACAAGT TTATTTTGCA GCTAGCAAGG TAACAGGGTA GGGCATGGTT ACATGTTCAG GTCAACTTCC TTTGTCGTGG 120 TTGATTGGTT TGTCTTTATG GGGGCGGGGT GGGGTAGGGG AAACGAAGCA AATAACATGG 180 AGTGGGTGCA CCCTCCCTGT AGAACCTGGT TACAAAGCTT GGGGCAGTTC ACCTGGTCTG 240 TGACCGTCAT TTTCTTGACA TCAATGTTAT TAGAAGTCAG GATATCTTTT AGAGAGTCCA 300 CTGTTCTGGA GGGAGATTAG GGTTTCTTGC CAAATCCAAC AAAATCCACT GAAAAAGTTG 360 405 GATGATCAGT ACGAATACCG AGGCATATTC TCATATCGGT GGCCA (2) INFORMATION FOR SEQ ID NO:102: (i) SEOUENCE CHARACTERISTICS: (A) LENGTH: 470 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (vi) ORIGINAL SOURCE: (A) ORGANISM: Homo sapiens (xi) SEQUENCE DESCRIPTION: SEQ ID NO:102: 60 GGCACTTAAT CCATTTTTAT TTCAAAATGT CTACAAATTT AATCCCATTA TACGGTATTT 120 TCAAAATCTA AATTATTCAA ATTAGCCAAA TCCTTACCAA ATAATACCCA AAAATCAAAA 180 ATATACTTCT TTCAGCAAAC TTGTTACATA AATTAAAAAA ATATATACGG CTGGTGTTTT 240 CAAAGTACAA TTATCTTAAC ACTGCAAACA TTTTAAGGAA CTAAAATAAA AAAAAACACT 300

AAATCTTAGG GGAAT	GGAAC AACAAATTCT ATATA CTTCACACGG TGGGC CCAACACAAT	GATCTTAACT	TTTACTCACT	TTGTTTATTT	360 420 470
(2) INFORMATION	FOR SEQ ID NO:10	3:			

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 581 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (vi) ORIGINAL SOURCE:
  - (A) ORGANISM: Homo sapiens
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:103:

60 TTTTTTTTT TTTTTTTGA CCCCCCTCTT ATAAAAAACA AGTTACCATT TTATTTTACT TACACATATT TATTTTATAA TTGGTATTAG ATATTCAAAA GGCAGCTTTT AAAATCAAAC 120 TAAATGGAAA CTGCCTTAGA TACATAATTC TTAGGAATTA GCTTAAAATC TGCCTAAAGT 180 GAAAATCTTC TCTAGCTCTT TTGACTGTAA ATTTTTGACT CTTGTAAAAC ATCCAAATTC 240 ATTTTTCTTG TCTTTAAAAT TATCTAATCT TTCCATTTTT TCCCTATTCC AAGTCAATTT 300 GCTTCTCTAG CCTCATTTCC TAGCTCTTAT CTACTATTAG TAAGTGGCTT TTTTCCTAAA 360 AGGGAAAACA GGAAGAGAAA TGGCACACAA AACAAACATT TTATATTCAT ATTTCTACCT 420 ACGTTAATAA AATAGCATTT TGTGAAGCCA GCTCAAAAGA AGGCTTAGAT CCTTTTATGT 480 CCATTTTAGT CACTAAACGA TATCAAAGTG CCAGAATGCA AAAGGTTTGT GAACATTTAT 540 581 TCAAAAGCTA ATATAAGATA TTTCACATAC TCATCTTTCT G

- (2) INFORMATION FOR SEQ ID NO:104:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 578 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: single
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (vi) ORIGINAL SOURCE:
    - (A) ORGANISM: Homo sapiens
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:104:

ጥጥጥጥጥጥጥጥ	TTTTTTTTTT	TTTTTCTCTT	CTTTTTTTTT	GAAATGAGGA	TCGAGTTTTT	60
CACTCTCTAG	ATAGGGCATG	AAGAAAACTC	ATCTTTCCAG	CTTTAAAATA	ACAATCAAAT	120
CTCTTATGCT	ATATCATATT	TTAAGTTAAA	CTAATGAGTC	ACTGGCTTAT	CTTCTCCTGA	180
AGGAAATCTG	TTCATTCTTC	TCATTCATAT	AGTTATATCA	AGTACTACCT	TGCATATTGA	240
GAGGTTTTTC	TTCTCTATTT	ACACATATAT	TTCCATGTGA	ATTTGTATCA	AACCTTTATT	300
TTCATGCAAA	CTAGAAAATA	ATGTTTCTTT	TGCATAAGAG	AAGAGAACAA	TATAGCATTA	360
			CCATTATAAT			420
AAATCACATT	TACGACAGCA	ATAATAAAAC	TGAAGTACCA	GTTAAATATC	CAAAATAATT	480
AAAGGAACAT	TTTTAGCCTG	GGTATAATTA	GCTAATTCAC	TTTACAAGCA	TTTATTAGAA	540
	TGTTATTATT					578

(2) INFORMATION FOR SEQ ID NO:105:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 538 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (vi) ORIGINAL SOURCE:
  - (A) ORGANISM: Homo sapiens
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:105:

TTTTTTTTT	TTTTTCAGTA	ATAATCAGAA	CAATATTTAT	TTTTATATTT	AAAATTCATA	60
GAAAAGTGCC	TTACATTTAA	TAAAAGTTTG	TTTCTCAAAG	TGATCAGAGG	AATTAGATAT	120
GTCTTGAACA	CCAATATTAA	TTTGAGGAAA	ATACACCAAA	ATACATTAAG	TTTATTAAAT	180
AAGATCATAG	AGCTTGTAAG	TGAAAAGATA	AAATTTGACC	TCAGAAACTC	TGAGCATTAA	240
	TTAGCAAATA					300
	TGGTAAACCA					360
TGTACTTTGC	TAATACGTGG	ATATGAGTTG	ACAAGTTTCT	CTTTCTTCAA	TCTTTTAAGG	420
GGCGAGAAAT	GAGGAAGAAA					480
AGATATGTTT	CCTTTGCCAA	TATTAAAAAAA	ATAATAATGT	TTACTACTAG	TGAAACCC	538

- (2) INFORMATION FOR SEQ ID NO:106:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 473 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: single
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (vi) ORIGINAL SOURCE:
    - (A) ORGANISM: Homo sapiens
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:106:

TTTTTTTTTT	TTTTTTAGTC	AAGTTTCTAT	TTTTATTATA	ATTAAAGTCT	TGGTCATTTC	60
ATTTATTAGC	TCTGCAACTT	ACATATTTAA	ATTAAAGAAA	CGTTTTAGAC	AACTGTACAA	120
TTTATAAATG	TAAGGTGCCA	TTATTGAGTA	ATATATTCCT	CCAAGAGTGG	ATGTGTCCCT	180
TCTCCCACCA	ACTAATGAAC	AGCAACATTA	GTTTAATTTT	ATTAGTAGAT	ATACACTGCT	240
GCAAACGCTA	ATTCTCTTCT	CCATCCCCAT	GTGATATTGT	GTATATGTGT	GAGTTGGTAG	300
				GCTGGGCTTT		360
				GGTGGCAAGA		420
				ACTTGTTTCA		473

- (2) INFORMATION FOR SEQ ID NO:107:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 1621 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: single
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (vi) ORIGINAL SOURCE:

### (A) ORGANISM: Homo sapiens

# (xi) SEQUENCE DESCRIPTION: SEQ ID NO:107:

CGCCATGGC	A CTGCAGGGCA	TCTCGGTCAT	GGAGCTGTCC	GGCCTGGCCC	CGGGCCCGTT	60
CTGTGCTAT	G GTCCTGGCTG	ACTTCGGGGC	GCGTGTGGTA	CGCGTGGACC	GGCCCGGCTC	120
CCGCTACGA	C GTGAGCCGCT	TGGGCCGGGG	CAAGCGCTCG	CTAGTGCTGG	ACCTGAAGCA	180
GCCGCGGG	A GCCGCCGTGC	TGCGGCGTCT	GTGCAAGCGG	TCGGATGTGC	TGCTGGAGCC	240
CTTCCGCCG	C GGTGTCATGG	AGAAACTCCA	GCTGGGCCCA	GAGATTCTGC	AGCGGGAAAA	300
TCCAAGGCT	T ATTTATGCCA	GGCTGAGTGG	ATTTGGCCAG	TCAGGAAGCT	TCTGCCGGTT	360
AGCTGGCCA	C GATATCAACT	ATTTGGCTTT	GTCAGGTGTT	CTCTCAAAAA	TTGGCAGAAG	420
TGGTGAGAA	T CCGTATGCCC	CGCTGAATCT	CCTGGCTGAC	TTTGCTGGTG	GTGGCCTTAT	480
GTGTGCACT	G GGCATTATAA	TGGCTCTTTT	TGACCGCACA	CGCACTGACA	AGGGTCAGGT	540
CATTGATGC	A AATATGGTGG	AAGGAACAGC	ATATTTAAGT	TCTTTTCTGT	GGAAAACTCA	600
GAAATCGAG	T CTGTGGGAAG	CACCTCGAGG	ACAGAACATG	TTGGATGGTG	GAGCACCTTT	660
CTATACGAC	T TACAGGACAG	CAGATGGGGA	ATTCATGGCT	GTTGGAGCAA	TAGAACCCCA	720
GTTCTACGA	G CTGCTGATCA	AAGGACTTGG	ACTAAAGTCT	GATGAACTTC	CCAATCAGAT	780
GAGCATGGA	T GATTGGCCAG	AAATGAAGAA	GAAGTTTGCA	GATGTATTTG	CAAAGAAGAC	840
GAAGGCAGA	G TGGTGTCAAA	TCTTTGACGG	CACAGATGCC	TGTGTGACTC	CGGTTCTGAC	900
TTTTGAGGA	G GTTGTTCATC	ATGATCACAA	CAAGGAACGG	GGCTCGTTTA	TCACCAGTGA	960
GGAGCAGGA	C GTGAGCCCCC	GCCCTGCACC	TCTGCTGTTA	AACACCCCAG	CCATCCCTTC	1020
TTTCAAAAG	G GATCCTTTCA	TAGGAGAACA	CACTGAGGAG	ATACTTGAAG	AATTTGGATT	1080
CAGCCGCGA	A GAGATTTATC	AGCTTAACTC	AGATAAAATC	ATTGAAAGTA	ATAAGGTAAA	1140
AGCTAGTCT	C TAACTTCCAG	GCCCACGGCT	CAAGTGAATT	TGAATACTGC	ATTTACAGTG	1200
TAGAGTAAC	A CATAACATTG	TATGCATGGA	AACATGGAGG	AACAGTATTA	CAGTGTCCTA	1260
CCACTCTAA	T CAAGAAAAGA	ATTACAGACT	CTGATTCTAC	AGTGATGATT	GAATTCTAAA	1320
AATGGTTAT	C ATTAGGGCTT	TTGATTTATA	AAACTTTGGG	TACTTATACT	AAATTATGGT	1380
AGTTATTCT	G CCTTCCAGTT	TGCTTGATAT	ATTTGTTGAT	ATTAAGATTC	TTGACTTATA	1440
TTTTGAATG	G GTTCTAGTGA	AAAAGGAATG	ATATATTCTT	GAAGACATCG	ATATACATTT	1500
ATTTACACT			ATGAGGAAAT	GCCACAAATT	GTATGGTGAT	1560
AAAAGTCAC	G TGAAACAAAA	AAAAAAAAA	AAAAAAAAA	AAAAAAAAA	AAAAAAAAA	1620
A						1621

# (2) INFORMATION FOR SEQ ID NO:108:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 382 amino acids
  - (B) TYPE: amino acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: protein
- (vi) ORIGINAL SOURCE:
  - (A) ORGANISM: Homo sapiens
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:108:
- Met
   Ala
   Leu
   Gln
   Gly
   Ile
   Ser
   Val
   Met
   Glu
   Leu
   Ser
   Gly
   Leu
   Ala
   Phe
   Gly
   Leu
   Ala
   Asp
   Phe
   Gly
   Ala
   Arg
   Val
   Val
   Val

   Arg
   Val
   Arg
   Arg
   Arg
   Bro
   Gly
   Ser
   Arg
   Tyr
   Asp
   Val
   Ser
   Arg
   Leu
   Arg
   Arg
   Arg
   Arg
   Arg
   Arg
   Leu
   Arg
   Leu
   Arg
   Leu
   Arg
   Leu
   Arg
   Leu
   Arg
   A

Arg Arg Gly Val Met Glu Lys Leu Gln Leu Gly Pro Glu Ile Leu Gln 90 Arg Glu Asn Pro Arg Leu Ile Tyr Ala Arg Leu Ser Gly Phe Gly Gln 105 Ser Gly Ser Phe Cys Arg Leu Ala Gly His Asp Ile Asn Tyr Leu Ala 120 125 Leu Ser Gly Val Leu Ser Lys Ile Gly Arg Ser Gly Glu Asn Pro Tyr 135 140 Ala Pro Leu Asn Leu Leu Ala Asp Phe Ala Gly Gly Leu Met Cys 155 150 Ala Leu Gly Ile Ile Met Ala Leu Phe Asp Arg Thr Arg Thr Asp Lys 165 170 Gly Gln Val Ile Asp Ala Asn Met Val Glu Gly Thr Ala Tyr Leu Ser 185 190 Ser Phe Leu Trp Lys Thr Gln Lys Ser Ser Leu Trp Glu Ala Pro Arg 205 200 Gly Gln Asn Met Leu Asp Gly Gly Ala Pro Phe Tyr Thr Thr Tyr Arg 215 220 Thr Ala Asp Gly Glu Phe Met Ala Val Gly Ala Ile Glu Pro Gln Phe 235 230 Tyr Glu Leu Leu Ile Lys Gly Leu Gly Leu Lys Ser Asp Glu Leu Pro 250 245 Asn Gln Met Ser Met Asp Asp Trp Pro Glu Met Lys Lys Lys Phe Ala 270 260 265 Asp Val Phe Ala Lys Lys Thr Lys Ala Glu Trp Cys Gln Ile Phe Asp 280 285 Gly Thr Asp Ala Cys Val Thr Pro Val Leu Thr Phe Glu Glu Val Val 295 His His Asp His Asn Lys Glu Arg Gly Ser Phe Ile Thr Ser Glu Glu 315 310 Gln Asp Val Ser Pro Arg Pro Ala Pro Leu Leu Leu Asn Thr Pro Ala 330 325 Ile Pro Ser Phe Lys Arg Asp Pro Phe Ile Gly Glu His Thr Glu Glu 345 Ile Leu Glu Glu Phe Gly Phe Ser Arg Glu Glu Ile Tyr Gln Leu Asn 360 Ser Asp Lys Ile Ile Glu Ser Asn Lys Val Lys Ala Ser Leu 375 370

# (2) INFORMATION FOR SEQ ID NO:109:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 1524 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (vi) ORIGINAL SOURCE:
  - (A) ORGANISM: Homo sapiens
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:109:

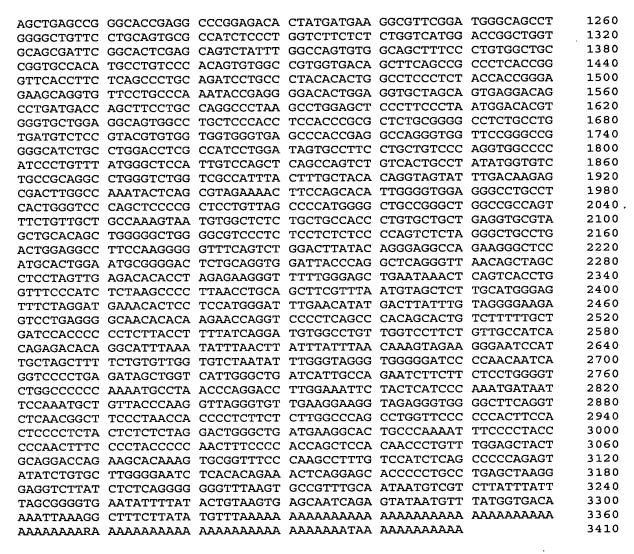
GGCACGAGGC	TGCGCCAGGG	CCTGAGCGGA	GGCGGGGGCA	GCCTCGCCAG	CGGGGGCCCC	60
GGGCCTGGCC	ATGCCTCACT	GAGCCAGCGC	CTGCGCCTCT	ACCTCGCCGA	CAGCTGGAAC	120
CAGTGCGACC	TAGTGGCTCT	CACCTGCTTC	CTCCTGGGCG	TGGGCTGCCG	GCTGACCCCG	180
CCTTTCTACC	ACCTGGGCCG	CACTGTCCTC	TGCATCGACT	TCATGGTTTT	CACGGTGCGG	240

CTGCTTCACA	TCTTCACGGT	CAACAAACAG	CTGGGGCCCA	AGATCGTCAT	CGTGAGCAAG	300
ATGATGAAGG	ACGTGTTCTT	CTTCCTCTTC	TTCCTCGGCG	TGTGGCTGGT	AGCCTATGGC	360
GTGGCCACGG	AGGGGCTCCT	GAGGCCACGG	GACAGTGACT	TCCCAAGTAT	CCTGCGCCGC	420
GTCTTCTACC	GTCCCTACCT	GCAGATCTTC	GGGCAGATTC	CCCAGGAGGA	CATGGACGTG	480
GCCCTCATGG	AGCACAGCAA	CTGCTCGTCG	GAGCCCGGCT	TCTGGGCACA	CCCTCCTGGG	540
GCCCAGGCGG	GCACCTGCGT	CTCCCAGTAT	GCCAACTGGC	TGGTGGTGCT	GCTCCTCGTC	600
ATCTTCCTGC	TCGTGGCCAA	CATCCTGCTG	GTCAACTTGC	TCATTGCCAT	GTTCAGTTAC	660
ACATTCGGCA	AAGTACAGGG	CAACAGCGAT	CTCTACTGGA	AGGCGCAGCG	TTACCGCCTC	720
ATCCGGGAAT	TCCACTCTCG	GCCCGCGCTG	GCCCGCCCT	TTATCGTCAT	CTCCCACTTG	780
CGCCTCCTGC	TCAGGCAATT	GTGCAGGCGA	CCCCGGAGCC	CCCAGCCGTC	CTCCCCGGCC	840
CTCGAGCATT	TCCGGGTTTA	CCTTTCTAAG	GAAGCCGAGC	GGAAGCTGCT	AACGTGGGAA	900
TCGGTGCATA	AGGAGAACTT	TCTGCTGGCA	CGCGCTAGGG	ACAAGCGGGA	GAGCGACTCC	960
GAGCGTCTGA	AGCGCACGTC	CCAGAAGGTG	GACTTGGCAC	TGAAACAGCT	GGGACACATC	1020
CGCGAGTACG	AACAGCGCCT	GAAAGTGCTG	GAGCGGGAGG	TCCAGCAGTG	TAGCCGCGTC	1080
CTGGGGTGGG	TGGCCGAGGC	CCTGAGCCGC	TCTGCCTTGC	TGCCCCCAGG	TGGGCCGCCA	1140
CCCCCTGACC	TGCCTGGGTC	CAAAGACTGA	GCCCTGCTGG	CGGACTTCAA	GGAGAAGCCC	1200
CCACAGGGGA	TTTTGCTCCT	AGAGTAAGGC	TCATCTGGGC	CTCGGCCCCC	GCACCTGGTG	1260
GCCTTGTCCT	TGAGGTGAGC	CCCATGTCCA	TCTGGGCCAC	TGTCAGGACC	ACCTTTGGGA	1320
GTGTCATCCT	TACAAACCAC	AGCATGCCCG	GCTCCTCCCA	GAACCAGTCC	CAGCCTGGGA	1380
GGATCAAGGC	CTGGATCCCG	GGCCGTTATC	CATCTGGAGG	CTGCAGGGTC	CTTGGGGTAA	1440
CAGGGACCAC	AGACCCCTCA	CCACTCACAG	ATTCCTCACA	CTGGGGAAAT	AAAGCCATTT	1500
CAGAGGAAAA	AAAAAAAAA					1524

# (2) INFORMATION FOR SEQ ID NO:110:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 3410 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (vi) ORIGINAL SOURCE:
  - (A) ORGANISM: Homo sapiens
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:110:

GGGAACCAGC	CTGCACGCGC	TGGCTCCGGG	TGACAGCCGC	GCGCCTCGGC	CAGGATCTGA	60
GTGATGAGAC	GTGTCCCCAC	TGAGGTGCCC	CACAGCAGCA	GGTGTTGAGC	ATGGGCTGAG	120
AAGCTGGACC	GGCACCAAAG	GGCTGGCAGA	AATGGGCGCC	TGGCTGATTC	CTAGGCAGTT	180
GGCGGCAGCA	AGGAGGAGAG	GCCGCAGCTT	CTGGAGCAGA	GCCGAGACGA	AGCAGTTCTG	240
GAGTGCCTGA	ACGGCCCCCT	GAGCCCTACC	CGCCTGGCCC	ACTATGGTCC	AGAGGCTGTG	300
GGTGAGCCGC	CTGCTGCGGC	ACCGGAAAGC	CCAGCTCTTG	CTGGTCAACC	TGCTAACCTT	360
0010110000	GTGTGTTTGG	CCGCAGGCAT	CACCTATGTG	CCGCCTCTGC	TGCTGGAAGT	420
TGGCCTGGAG	GAGAAGTTCA	TGACCATGGT	GCTGGGCATT	GGTCCAGTGC	TGGGCCTGGT	480
GGGGGTAGAG	CTCCTAGGCT	CAGCCAGTGA	CCACTGGCGT	GGACGCTATG	GCCGCCGCCG	540
CTGTGTCCCG	TGGGCACTGT	CCTTGGGCAT	CCTGCTGAGC	CTCTTTCTCA	TCCCAAGGGC	600
GCCCTTCATC		TGTGCCCGGA	TCCCAGGCCC	CTGGAGCTGG	CACTGCTCAT	660
CGGCTGGCTA	GCAGGGCTGC	ACTTCTGTGG	CCAGGTGTGC	TTCACTCCAC	TGGAGGCCCT	720
CCTGGGCGTG	GGGCTGCTGG	ACCCGGACCA	CTGTCGCCAG	GCCTACTCTG	TCTATGCCTT	780
GCTCTCTGAC	CTCTTCCGGG		CCTCCTGCCT	GCCATTGACT	GGGACACCAG	840
CATGATCAGT	CTTGGGGGCT	GCCTGGGCTA	GGAGTGCCTC	TTTGGCCTGC	TCACCCTCAT	900
TGCCCTGGCC	CCCTACCTGG	GCACCCAGGA		GAGGCAGCGC	TGGGCCCCAC	960
CTTCCTCACC	TGCGTAGCAG	CCACACTGCT	GGTGGCTGAG	<del>-</del>	CATGCCGGGC	1020
CGAGCCAGCA	GAAGGGCTGT	CGGCCCCCTC	CTTGTCGCCC	CACTGCTGTC	TGTGCTGCCG	1080
CCGCTTGGCT	TTCCGGAACC	TGGGCGCCCT	GCTTCCCCGG	CTGCACCAGC		1140
CATGCCCCGC	ACCCTGCGCC	GGCTCTTCGT	GGCTGAGCTG	TGCAGCTGGA	TGGCACTCAT	1200
GACCTTCACG	CTGTTTTACA	CGGATTTCGT	GGGCGAGGGG	CTGTACCAGG	GCGTGCCCAG	1200



## (2) INFORMATION FOR SEQ ID NO:111:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 1289 base pairs

(B) TYPE: nucleic acid

(C) STRANDEDNESS: single

(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(vi) ORIGINAL SOURCE:

(A) ORGANISM: Homo sapiens

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:111:

AGCCAGGCGT	CCCTCTGCCT	GCCCACTCAG	TGGCAACACC	CGGGAGCTGT	TTTGTCCTTT	60
GTGGAGCCTC	AGCAGTTCCC	TCTTTCAGAA	CTCACTGCCA	AGAGCCCTGA	ACAGGAGCCA	120
CCATGCAGTG	CTTCAGCTTC	ATTAAGACCA	TGATGATCCT	CTTCAATTTG	CTCATCTTTC	180
TGTGTGGTGC	AGCCCTGTTG	GCAGTGGGCA	TCTGGGTGTC	AATCGATGGG	GCATCCTTTC	240
TGAAGATCTT	CGGGCCACTG	TCGTCCAGTG	CCATGCAGTT	TGTCAACGTG	GGCTACTTCC	300

TCATCGCAGC	CGGCGTTGTG	GTCTTTGCTC	TTGGTTTCCT	GGGCTGCTAT	GGTGCTAAGA	360
CTGAGAGCAA	GTGTGCCCTC	GTGACGTTCT	TCTTCATCCT	CCTCCTCATC	TTCATTGCTG	420
AGGTTGCAGC	TGCTGTGGTC	GCCTTGGTGT	ACACCACAAT	GGCTGAGCAC	TTCCTGACGT	480
TGCTGGTAGT	GCCTGCCATC	AAGAAAGATT	ATGGTTCCCA	GGAAGACTTC	ACTCAAGTGT	540
GGAACACCAC	CATGAAAGGG	CTCAAGTGCT	GTGGCTTCAC	CAACTATACG	GATTTTGAGG	600
ACTCACCCTA	CTTCAAAGAG	AACAGTGCCT	TTCCCCCATT	CTGTTGCAAT	GACAACGTCA	660
CCAACACAGC	CAATGAAACC	TGCACCAAGC	AAAAGGCTCA	CGACCAAAAA	GTAGAGGGTT	720
GCTTCAATCA	GCTTTTGTAT	GACATCCGAA	CTAATGCAGT	CACCGTGGGT	GGTGTGGCAG	780
CTGGAATTGG	GGGCCTCGAG	CTGGCTGCCA	TGATTGTGTC	CATGTATCTG	TACTGCAATC	840
TACAATAAGT	CCACTTCTGC	CTCTGCCACT	ACTGCTGCCA	CATGGGAACT	GTGAAGAGGC	900
ACCCTGGCAA	GCAGCAGTGA	TTGGGGGAGG	GGACAGGATC	TAACAATGTC	ACTTGGGCCA	960
GAATGGACCT	GCCCTTTCTG	CTCCAGACTT	GGGGCTAGAT	AGGGACCACT	CCTTTTAGCG	1020
ATGCCTGACT	TTCCTTCCAT	TGGTGGGTGG	ATGGGTGGGG	GGCATTCCAG	AGCCTCTAAG	1080
GTAGCCAGTT	CTGTTGCCCA	TTCCCCCAGT	CTATTAAACC	CTTGATATGC	CCCCTAGGCC	1140
TAGTGGTGAT	CCCAGTGCTC	TACTGGGGGA	TGAGAGAAAG	GCATTTTATA	GCCTGGGCAT	1200
AAGTGAAATC	AGCAGAGCCT	CTGGGTGGAT	GTGTAGAAGG	CACTTCAAAA	TGCATAAACC	1260
TGTTACAATG	TTAAAAAAAA	AAAAAAAA				1289

### (2) INFORMATION FOR SEQ ID NO:112:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 315 amino acids
  - (B) TYPE: amino acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: protein
- (vi) ORIGINAL SOURCE:
  - (A) ORGANISM: Homo sapiens
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:112:
- Met Val Phe Thr Val Arg Leu Leu His Ile Phe Thr Val Asn Lys Gln 1 5 10 15
- Leu Gly Pro Lys Ile Val Ile Val Ser Lys Met Met Lys Asp Val Phe 20 25 30
- Phe Phe Leu Phe Phe Leu Gly Val Trp Leu Val Ala Tyr Gly Val Ala 35 40 45
- Thr Glu Gly Leu Leu Arg Pro Arg Asp Ser Asp Phe Pro Ser Ile Leu 50 55 60
- Arg Arg Val Phe Tyr Arg Pro Tyr Leu Gln Ile Phe Gly Gln Ile Pro 65 70 75 80
- Gln Glu Asp Met Asp Val Ala Leu Met Glu His Ser Asn Cys Ser Ser 85 90 95
- Glu Pro Gly Phe Trp Ala His Pro Pro Gly Ala Gln Ala Gly Thr Cys
  100 105 110
- Val Ser Gln Tyr Ala Asn Trp Leu Val Val Leu Leu Leu Val Ile Phe 115 120 125
- Leu Leu Val Ala Asn Ile Leu Leu Val Asn Leu Leu Ile Ala Met Phe

130 135 140 Ser Tyr Thr Phe Gly Lys Val Gln Gly Asn Ser Asp Leu Tyr Trp Lys 155 Ala Gln Arg Tyr Arg Leu Ile Arg Glu Phe His Ser Arg Pro Ala Leu Ala Pro Pro Phe Ile Val Ile Ser His Leu Arg Leu Leu Leu Arg Gln 185 Leu Cys Arg Arg Pro Arg Ser Pro Gln Pro Ser Ser Pro Ala Leu Glu His Phe Arg Val Tyr Leu Ser Lys Glu Ala Glu Arg Lys Leu Leu Thr Trp Glu Ser Val His Lys Glu Asn Phe Leu Leu Ala Arg Ala Arg Asp 230 225 Lys Arg Glu Ser Asp Ser Glu Arg Leu Lys Arg Thr Ser Gln Lys Val Asp Leu Ala Leu Lys Gln Leu Gly His Ile Arg Glu Tyr Glu Gln Arg 260 Leu Lys Val Leu Glu Arg Glu Val Gln Gln Cys Ser Arg Val Leu Gly Trp Val Ala Glu Ala Leu Ser Arg Ser Ala Leu Leu Pro Pro Gly Gly 290 Pro Pro Pro Pro Asp Leu Pro Gly Ser Lys Asp

- (2) INFORMATION FOR SEQ ID NO:113:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 553 amino acids
    - (B) TYPE: amino acid
    - (C) STRANDEDNESS: single
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: protein
  - (vi) ORIGINAL SOURCE:
    - (A) ORGANISM: Homo sapiens
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:113:

Met Val Gln Arg Leu Trp Val Ser Arg Leu Leu Arg His Arg Lys Ala
1 10 15

Gln Leu Leu Val Asn Leu Leu Thr Phe Gly Leu Glu Val Cys Leu 20 25 30

Ala Ala Gly Ile Thr Tyr Val Pro Pro Leu Leu Glu Val Gly Val
35 40 45

Glu Glu Lys Phe Met Thr Met Val Leu Gly Ile Gly Pro Val Leu Gly Leu Val Cys Val Pro Leu Leu Gly Ser Ala Ser Asp His Trp Arg Gly Arg Tyr Gly Arg Arg Pro Phe Ile Trp Ala Leu Ser Leu Gly Ile Leu Leu Ser Leu Phe Leu Ile Pro Arg Ala Gly Trp Leu Ala Gly Leu 105 Leu Cys Pro Asp Pro Arg Pro Leu Glu Leu Ala Leu Leu Ile Leu Gly Val Gly Leu Leu Asp Phe Cys Gly Gln Val Cys Phe Thr Pro Leu Glu Ala Leu Leu Ser Asp Leu Phe Arg Asp Pro Asp His Cys Arg Gln Ala 155 145 Tyr Ser Val Tyr Ala Phe Met Ile Ser Leu Gly Gly Cys Leu Gly Tyr Leu Leu Pro Ala Ile Asp Trp Asp Thr Ser Ala Leu Ala Pro Tyr Leu Gly Thr Gln Glu Glu Cys Leu Phe Gly Leu Leu Thr Leu Ile Phe Leu Thr Cys Val Ala Ala Thr Leu Leu Val Ala Glu Glu Ala Ala Leu Gly 210 Pro Thr Glu Pro Ala Glu Gly Leu Ser Ala Pro Ser Leu Ser Pro His 235 Cys Cys Pro Cys Arg Ala Arg Leu Ala Phe Arg Asn Leu Gly Ala Leu Leu Pro Arg Leu His Gln Leu Cys Cys Arg Met Pro Arg Thr Leu Arg Arg Leu Phe Val Ala Glu Leu Cys Ser Trp Met Ala Leu Met Thr Phe Thr Leu Phe Tyr Thr Asp Phe Val Gly Glu Gly Leu Tyr Gln Gly Val Pro Arg Ala Glu Pro Gly Thr Glu Ala Arg Arg His Tyr Asp Glu Gly 305 Val Arg Met Gly Ser Leu Gly Leu Phe Leu Gln Cys Ala Ile Ser Leu 330 Val Phe Ser Leu Val Met Asp Arg Leu Val Gln Arg Phe Gly Thr Arg 345

Ala Val Tyr Leu Ala Ser Val Ala Ala Phe Pro Val Ala Ala Gly Ala 355 360 365

Thr Cys Leu Ser His Ser Val Ala Val Val Thr Ala Ser Ala Ala Leu 370 375 380

Thr Gly Phe Thr Phe Ser Ala Leu Gln Ile Leu Pro Tyr Thr Leu Ala 385 390 395 400

Ser Leu Tyr His Arg Glu Lys Gln Val Phe Leu Pro Lys Tyr Arg Gly 405 410 415

Asp Thr Gly Gly Ala Ser Ser Glu Asp Ser Leu Met Thr Ser Phe Leu 420 425 430

Pro Gly Pro Lys Pro Gly Ala Pro Phe Pro Asn Gly His Val Gly Ala 435 440 445

Gly Gly Ser Gly Leu Leu Pro Pro Pro Pro Ala Leu Cys Gly Ala Ser 450 455 460

Ala Cys Asp Val Ser Val Arg Val Val Gly Glu Pro Thr Glu Ala 465 470 475 480

Arg Val Val Pro Gly Arg Gly Ile Cys Leu Asp Leu Ala Ile Leu Asp 485 490 495

Ser Ala Phe Leu Leu Ser Gln Val Ala Pro Ser Leu Phe Met Gly Ser 500 505 510

Ile Val Gln Leu Ser Gln Ser Val Thr Ala Tyr Met Val Ser Ala Ala 515 520 525

Gly Leu Gly Leu Val Ala Ile Tyr Phe Ala Thr Gln Val Val Phe Asp 530 535 540

Lys Ser Asp Leu Ala Lys Tyr Ser Ala 545 550

- (2) INFORMATION FOR SEQ ID NO:114:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 241 amino acids
    - (B) TYPE: amino acid
    - (C) STRANDEDNESS: single
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: protein
  - (vi) ORIGINAL SOURCE:
    - (A) ORGANISM: Homo sapiens
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:114:

Met Gln Cys Phe Ser Phe Ile Lys Thr Met Met Ile Leu Phe Asn Leu 1 5 10 15

Leu Ile Phe Leu Cys Gly Ala Ala Leu Leu Ala Val Gly Ile Trp Val

30 20 25 Ser Ile Asp Gly Ala Ser Phe Leu Lys Ile Phe Gly Pro Leu Ser Ser Ser Ala Met Gln Phe Val Asn Val Gly Tyr Phe Leu Ile Ala Ala Gly Val Val Val Phe Ala Leu Gly Phe Leu Gly Cys Tyr Gly Ala Lys Thr Glu Ser Lys Cys Ala Leu Val Thr Phe Phe Phe Ile Leu Leu Leu Ile 85 Phe Ile Ala Glu Val Ala Ala Ala Val Val Ala Leu Val Tyr Thr Thr Met Ala Glu His Phe Leu Thr Leu Leu Val Val Pro Ala Ile Lys Lys 115 Asp Tyr Gly Ser Gln Glu Asp Phe Thr Gln Val Trp Asn Thr Thr Met 135 Lys Gly Leu Lys Cys Cys Gly Phe Thr Asn Tyr Thr Asp Phe Glu Asp 145 Ser Pro Tyr Phe Lys Glu Asn Ser Ala Phe Pro Pro Phe Cys Cys Asn 165 Asp Asn Val Thr Asn Thr Ala Asn Glu Thr Cys Thr Lys Gln Lys Ala 180 His Asp Gln Lys Val Glu Gly Cys Phe Asn Gln Leu Leu Tyr Asp Ile Arg Thr Asn Ala Val Thr Val Gly Gly Val Ala Ala Gly Ile Gly Gly 215 210 Leu Glu Leu Ala Ala Met Ile Val Ser Met Tyr Leu Tyr Cys Asn Leu 230 235 225 Gln

# (2) INFORMATION FOR SEQ ID NO:115:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 366 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (vi) ORIGINAL SOURCE:
  - (A) ORGANISM: Homo Sapiens

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:115:

GCTCTTTCTC	TCCCCTCCTC	TGAATTTAAT	TCTTTCAACT	TGCAATTTGC	AAGGATTACA	60
	TGATGTATAT					120
	AATCCATCTT					180
ACTGGTAGAA	AAACATCTGA	AGAGCTAGTC	TATCAGCATC	TGACAGGTGA	ATTGGATGGT	240
TCTCAGAACC	ATTTCACCCA	GACAGCCTGT	TTCTATCCTG	TTTAATAATT	TAGTTTGGGT	300
TCTCTACATG	CATAACAAAC	CCTGCTCCAA	TCTGTCACAT	AAAAGTCTGT	GACTTGAAGT	360
TTAGTC						366

- (2) INFORMATION FOR SEQ ID NO:116:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 282 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: single
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (vi) ORIGINAL SOURCE:
    - (A) ORGANISM: Homo sapiens
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:116:

ACAAAGATGA	ACCATTTCCT	ATATTATAGC	AAAATTAAAA	TCTACCCGTA	TTCTAATATT	60
GAGAAATGAG	ATNAAACACA	ATNTTATAAA	GTCTACTTAG	AGAAGATCAA	GTGACCTCAA	120
AGACTTTACT	ATTTTCATAT	TTTAAGACAC	ATGATTTATC	CTATTTTAGT	AACCTGGTTC	180
ATACGTTAAA	CAAAGGATAA	TGTGAACAGC	AGAGAGGATT	TGTTGGCAGA	AAATCTATGT	240
		TCACAGACAT				282

- (2) INFORMATION FOR SEQ ID NO:117:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 305 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: single
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (vi) ORIGINAL SOURCE:
    - (A) ORGANISM: Homo sapiens
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:117:

ACACATGTCG CTTCACT	GCC TTCTTAGATG	CTTCTGGTCA	ACATANAGGA	ACAGGGACCA	60
TATTTATCCT CCCTCCT					120
AATAAGGCAA AATATAT					180
TACTGATCCC TGATCAC					240
GACTGCCCCA GCTTACT					300
TGGGT	000 101				305

- (2) INFORMATION FOR SEQ ID NO:118:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 71 base pairs

<ul><li>(B) TYPE: nucleic acid</li><li>(C) STRANDEDNESS: single</li><li>(D) TOPOLOGY: linear</li></ul>	
(ii) MOLECULE TYPE: cDNA	
<pre>(vi) ORIGINAL SOURCE:    (A) ORGANISM: Homo sapiens</pre>	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:118:	
ACCAAGGTGT NTGAATCTCT GACGTGGGGA TCTCTGATTC CCGCACAATC TGAGTGGAAA AANTCCTGGG T	60 71
(2) INFORMATION FOR SEQ ID NO:119:	
<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 212 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: single</li> <li>(D) TOPOLOGY: linear</li> </ul>	
(ii) MOLECULE TYPE: cDNA	
(vi) ORIGINAL SOURCE:  (A) ORGANISM: Homo sapiens	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:119:	
ACTCCGGTTG GTGTCAGCAG CACGTGGCAT TGAACATNGC AATGTGGAGC CCAAACCACA GAAAATGGGG TGAAATTGGC CAACTTTCTA TNAACTTATG TTGGCAANTT TGCCACCAAC AGTAAGCTGG CCCTTCTAAT AAAAGAAAAT TGAAAGGTTT CTCACTAANC GGAATTAANT AATGGANTCA AGANACTCCC AGGCCTCAGC GT	60 120 180 212
(2) INFORMATION FOR SEQ ID NO:120:	
<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 90 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: single</li> <li>(D) TOPOLOGY: linear</li> </ul>	
(ii) MOLECULE TYPE: cDNA	
<pre>(vi) ORIGINAL SOURCE:    (A) ORGANISM: Homo sapiens</pre>	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:120:	
ACTCGTTGCA NATCAGGGGC CCCCCAGAGT CACCGTTGCA GGAGTCCTTC TGGTCTTGCC CTCCGCCGGC GCAGAACATG CTGGGGTGGT	60 90
(2) INFORMATION FOR SEQ ID NO:121:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 218 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: single	

(D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(vi) ORIGINAL SOURCE: (A) ORGANISM: Homo sapiens	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:121:	
TGTANCGTGA ANACGACAGA NAGGGTTGTC AAAAATGGAG AANCCTTGAA GTCATTTTGA GAATAAGATT TGCTAAAAGA TTTGGGGCTA AAACATGGTT ATTGGGAGAC ATTTCTGAAG ATATNCANGT AAATTANGGA ATGAATTCAT GGTTCTTTTG GGAATTCCTT TACGATNGCC AGCATANACT TCATGTGGGG ATANCAGCTA CCCTTGTA	60 120 180 218
(2) INFORMATION FOR SEQ ID NO:122:	
<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 171 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: single</li> <li>(D) TOPOLOGY: linear</li> </ul>	
(ii) MOLECULE TYPE: cDNA	
<pre>(vi) ORIGINAL SOURCE:      (A) ORGANISM: Homo sapiens</pre>	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:122:	
TAGGGGTGTA TGCAACTGTA AGGACAAAAA TTGAGACTCA ACTGGCTTAA CCAATAAAGG CATTTGTTAG CTCATGGAAC AGGAAGTCGG ATGGTGGGGC ATCTTCAGTG CTGCATGAGT CACCACCCCG GCGGGGTCAT CTGTGCCACA GGTCCCTGTT GACAGTGCGG T  (2) INFORMATION FOR SEQ ID NO:123:	60 120 171
(2) INFORMATION FOR SEQ ID NO:123:	
<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 76 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: single</li> <li>(D) TOPOLOGY: linear</li> </ul>	
(ii) MOLECULE TYPE: cDNA	
<pre>(vi) ORIGINAL SOURCE:     (A) ORGANISM: Homo sapiens</pre>	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:123:	
TGTAGCGTGA AGACNACAGA ATGGTGTGTG CTGTGCTATC CAGGAACACA TTTATTATCA TTATCAANTA TTGTGT	60 76
(2) INFORMATION FOR SEQ ID NO:124:	
<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 131 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: single</li> <li>(D) TOPOLOGY: linear</li> </ul>	

(ii) MOLECULE TYPE: cDNA	
<pre>(vi) ORIGINAL SOURCE:     (A) ORGANISM: Homo sapiens</pre>	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:124:	
ACCTTTCCCC AAGGCCAATG TCCTGTGTGC TAACTGGCCG GCTGCAGGAC AGCTGCAATT CAATGTGCTG GGTCATATGG AGGGGAGGAG ACTCTAAAAT AGCCAATTTT ATTCTCTTGG TTAAGATTTG T	60 120 131
(2) INFORMATION FOR SEQ ID NO:125:	
<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 432 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: single</li> <li>(D) TOPOLOGY: linear</li> </ul>	
(ii) MOLECULE TYPE: cDNA	
<pre>(vi) ORIGINAL SOURCE:     (A) ORGANISM: Homo sapiens</pre>	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:125:	
ACTTTATCTA CTGGCTATGA AATAGATGGT GGAAAATTGC GTTACCAACT ATACCACTGG CTTGAAAAAG AGGTGATAGC TCTTCAGAGG ACTTGTGACT TTTGCTCAGA TGCTGAAGAA CTACAGTCTG CATTTGGCAG AAATGAAGAT GAATTTGGAT TAAATGAGGA TGCTGAAGAT TTGCCTCACC AAACAAAAGT GAAACAACTG AGGAAAATT TTCAGGAAAA CTCTTTGAAGT ATCAGTCACT TTTGAGAATG TTTCTTAGTT ACTGCATACT TCATGGATCC CATGGTGGGG GTCTTGCATC TGTAAGAATG GAATTGATTT TGCTTTTGCA AGAATCTCAG CAGGAAACAT CAGAACCACT ATTTCTAGC CCTCTGTCAG AGCAAACCTC AGTGCCTCTC CTCTTTGCTT GT	60 120 180 240 300 360 420 432
(2) INFORMATION FOR SEQ ID NO:126:	
<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 112 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: single</li> <li>(D) TOPOLOGY: linear</li> </ul>	
(ii) MOLECULE TYPE: cDNA	
<pre>(vi) ORIGINAL SOURCE:     (A) ORGANISM: Homo sapiens</pre>	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:126:	
ACACAACTTG AATAGTAAAA TAGAAACTGA GCTGAAATTT CTAATTCACT TTCTAACCAT AGTAAGAATG ATATTTCCCC CCAGGGATCA CCAAATATTT ATAAAAATTT GT	60 112
(2) INFORMATION FOR SEQ ID NO:127:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 54 base pairs	

(B) TYPE: nucleic acid(C) STRANDEDNESS: single(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA	
<pre>(vi) ORIGINAL SOURCE:     (A) ORGANISM: Homo sapiens</pre>	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:127:	
ACCACGAAAC CACAAACAAG ATGGAAGCAT CAATCCACTT GCCAAGCACA GCAG	54
(2) INFORMATION FOR SEQ ID NO:128:	
<ul><li>(i) SEQUENCE CHARACTERISTICS:</li><li>(A) LENGTH: 323 base pairs</li><li>(B) TYPE: nucleic acid</li><li>(C) STRANDEDNESS: single</li><li>(D) TOPOLOGY: linear</li></ul>	
(ii) MOLECULE TYPE: cDNA	
<pre>(vi) ORIGINAL SOURCE:     (A) ORGANISM: Homo sapiens</pre>	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:128:	
ACCTCATTAG TAATTGTTT GTTGTTCAT TTTTTCTAA TGTCTCCCT CTACCAGCTC ACCTGAGATA ACAGAATGAA AATGGAAGGA CAGCCAGATT TCTCCTTTGC TCTCTGCTCA TTCTCTCTGA AGTCTAGGTT ACCCATTTTG GGGACCCATT ATAGGCAATA AACACAGTTC CCAAAGCATT TGGACAGTT CTTGTTGTGT TTTAGAATGG TTTTCCTTTT TCTTAGCCTT TTCCTGCAAA AGGCTCACTC AGTCCCTTGC TTGCTCAGTG GACTGGGCTC CCCAGGGCCT AGGCTGCCTT CTTTTCCATG TCC	60 120 180 240 300 323
(2) INFORMATION FOR SEQ ID NO:129:	
<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 192 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: single</li> <li>(D) TOPOLOGY: linear</li> </ul>	
(ii) MOLECULE TYPE: cDNA	
<ul><li>(vi) ORIGINAL SOURCE:</li><li>(A) ORGANISM: Homo sapiens</li></ul>	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:129:	
ACATACATGT GTGTATATTT TTAAATATCA CTTTTGTATC ACTCTGACTT TTTAGCATAC TGAAAACACA CTAACATAAT TTNTGTGAAC CATGATCAGA TACAACCCAA ATCATTCATC TAGCACATTC ATCTGTGATA NAAAGATAGG TGAGTTTCAT TTCCTTCACG TTGGCCAATG GATAAACAAA GT	60 120 180 192
(2) INFORMATION FOR SEQ ID NO:130:	
(i) SEQUENCE CHARACTERISTICS:	

GG

- (A) LENGTH: 362 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (vi) ORIGINAL SOURCE: (A) ORGANISM: Homo sapiens (xi) SEQUENCE DESCRIPTION: SEQ ID NO:130: CCCTTTTTTA TGGAATGAGT AGACTGTATG TTTGAANATT TANCCACAAC CTCTTTGACA 60 TATAATGACG CAACAAAAG GTGCTGTTTA GTCCTATGGT TCAGTTTATG CCCCTGACAA 120 GTTTCCATTG TGTTTTGCCG ATCTTCTGGC TAATCGTGGT ATCCTCCATG TTATTAGTAA 180 TTCTGTATTC CATTTTGTTA ACGCCTGGTA GATGTAACCT GCTANGAGGC TAACTTTATA 240 CTTATTTAAA AGCTCTTATT TTGTGGTCAT TAAAATGGCA ATTTATGTGC AGCACTTTAT 300 TGCAGCAGGA AGCACGTGTG GGTTGGTTGT AAAGCTCTTT GCTAATCTTA AAAAGTAATG 360 362 (2) INFORMATION FOR SEQ ID NO:131: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 332 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (vi) ORIGINAL SOURCE: (A) ORGANISM: Homo sapiens (xi) SEQUENCE DESCRIPTION: SEQ ID NO:131: CTTTTTGAAA GATCGTGTCC ACTCCTGTGG ACATCTTGTT TTAATGGAGT TTCCCATGCA 60 GTANGACTGG TATGGTTGCA GCTGTCCAGA TAAAAACATT TGAAGAGCTC CAAAATGAGA 120 GTTCTCCCAG GTTCGCCCTG CTGCTCCAAG TCTCAGCAGC AGCCTCTTTT AGGAGGCATC 180 TTCTGAACTA GATTAAGGCA GCTTGTAAAT CTGATGTGAT TTGGTTTATT ATCCAACTAA 240 CTTCCATCTG TTATCACTGG AGAAAGCCCA GACTCCCCAN GACNGGTACG GATTGTGGGC 300 332 ATANAAGGAT TGGGTGAAGC TGGCGTTGTG GT (2) INFORMATION FOR SEQ ID NO:132:
  - - (i) SEQUENCE CHARACTERISTICS:
      - (A) LENGTH: 322 base pairs
      - (B) TYPE: nucleic acid
      - (C) STRANDEDNESS: single
      - (D) TOPOLOGY: linear
    - (ii) MOLECULE TYPE: cDNA
    - (vi) ORIGINAL SOURCE:
      - (A) ORGANISM: Homo sapiens
    - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:132:

(vi) ORIGINAL SOURCE:

(A) ORGANISM: Homo sapiens

AGTGGCTAAG AGAACTCGAT TTCAAGCAAT TCTGAAAGGA AAACCAGCAT GACACAGAAT CTCAAATTCC CAAACAGGGG CTCTGTGGGA AAAATGAGG AGGACCTTTG TATCTCGGGT TTTAGCAAGT TAAAATGAAN ATGACAGGAA AGGCTTATTT ATCAACAAAG AGAAGAGTTG GGATGCTTCT AAAAAAAACT TTGGTAGAGA AAATAGGAAT GCTNAATCCT AGGGAAGCCT GTAACAATCT ACAATTGGTC CA	120 180 240 300 322
(2) INFORMATION FOR SEQ ID NO:133:	
<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 278 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: single</li> <li>(D) TOPOLOGY: linear</li> </ul>	
(ii) MOLECULE TYPE: cDNA	
<pre>(vi) ORIGINAL SOURCE:     (A) ORGANISM: Homo sapiens</pre>	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:133:	
ACAAGCCTTC ACAAGTTTAA CTAAATTGGG ATTAATCTTT CTGTANTTAT CTGCATAATT CTTGTTTTTC TTTCCATCTG GCTCCTGGGT TGACAATTTG TGGAAACAAC TCTATTGCTA CTATTTAAAA AAAATCACAA ATCTTTCCCT TTAAGCTATG TTNAATTCAA ACTATTCCTG CTATTCCTGT TTTGTCAAAG AAATTATATT TTTCAAAATA TGTNTATTTG TTTGATGGGT CCCACGAAAC ACTAATAAAA ACCACAGAGA CCAGCCTG	60 120 180 240 278
(2) INFORMATION FOR SEQ ID NO:134:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 121 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: single  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
<pre>(vi) ORIGINAL SOURCE:     (A) ORGANISM: Homo sapiens</pre>	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:134:	
GTTTANAAAA CTTGTTTAGC TCCATAGAGG AAAGAATGTT AAACTTTGTA TTTTAAAACA TGATTCTCTG AGGTTAAACT TGGTTTTCAA ATGTTATTTT TACTTGTATT TTGCTTTTGG T	60 120 121
(2) INFORMATION FOR SEQ ID NO:135:	
<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 350 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: single</li> <li>(D) TOPOLOGY: linear</li> </ul>	
(ii) MOLECULE TYPE: cDNA	

### (xi) SEQUENCE DESCRIPTION: SEQ ID NO:135:

ACTTANAACC	ATGCCTAGCA	CATCAGAATC	CCTCAAAGAA	CATCAGTATA	ATCCTATACC	60
ATANCAAGTG	GTGACTGGTT	AAGCGTGCGA	CAAAGGTCAG	CTGGCACATT	ACTTGTGTGC	120
AAACTTGATA	CTTTTGTTCT	AAGTAGGAAC	TAGTATACAG	TNCCTAGGAN	TGGTACTCCA	180
GGGTGCCCCC	CAACTCCTGC	AGCCGCTCCT	CTGTGCCAGN	CCCTGNAAGG	AACTTTCGCT	240
CCACCTCAAT	CAAGCCCTGG	GCCATGCTAC	CTGCAATTGG	CTGAACAAAC	GTTTGCTGAG	300
			TCCTGGGGCG			350

- (2) INFORMATION FOR SEQ ID NO:136:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 399 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: single
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (vi) ORIGINAL SOURCE:
    - (A) ORGANISM: Homo sapiens
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:136:

TGTACCGTGA AGACGACAGA					60
GCTGTGATTG TATCCGAATA	NTCCTCGTGA	GAAAAGATAA	TGAGATGACG	TGAGCAGCCT	120
GCAGACTTGT GTCTGCCTTC					180
CCTGGCGGCC AGCCAGCCAG					240
AAAACTGCAG AGGCCCAGGG	TCAGGTGTNA	GTGGGTANGT	GACCATAAAA	CACCAGGTGC	300
TCCCAGGAAC CCGGGCAAAG	GCCATCCCCA	CCTACAGCCA	GCATGCCCAC	TGGCGTGATG	360
GGTGCAGANG GATGAAGCAG	CCAGNTGTTC	TGCTGTGGT			399

- (2) INFORMATION FOR SEQ ID NO:137:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 165 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: single
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (vi) ORIGINAL SOURCE:
    - (A) ORGANISM: Homo sapiens
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:137:

ACTGGTGTGG	TNGGGGGTGA	TGCTGGTGGT	ANAAGTTGAN	GTGACTTCAN	GATGGTGTGT	60
					AGCTTCGGGA	
		TCACTGTCAT				165

- (2) INFORMATION FOR SEQ ID NO:138:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 338 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: single

(D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
<ul><li>(vi) ORIGINAL SOURCE:</li><li>(A) ORGANISM: Homo sapiens</li></ul>	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:138:	
ACTCACTGGA ATGCCACATT CACAACAGAA TCAGAGGTCT GTGAAAACAT TAATGGCTCC TTAACTTCTC CAGTAAGAAT CAGGGACTTG AAATGGAAAC GTTAACAGCC ACATGCCCAA TGCTGGGCAG TCTCCCATGC CTTCCACAGT GAAAGGGCTT GAGAAAAAATC ACATCCAATG TCATGTGTTT CCAGCCACAC CAAAAGGTGC TTGGGGTGGA GGGCTGGGGG CATANANGGT CANGCCTCAG GAAGCCTCAA GTTCCATTCA GCTTTGCCAC TGTACATTCC CCATNTTTAA AAAAACTGAT GCCTTTTTT TTTTTTTTTTTTTTTTTTT	60 120 180 240 300 338
(2) INFORMATION FOR SEQ ID NO:139:	
<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 382 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: single</li> <li>(D) TOPOLOGY: linear</li> </ul>	
(ii) MOLECULE TYPE: cDNA	
<ul><li>(vi) ORIGINAL SOURCE:</li><li>(A) ORGANISM: Homo sapiens</li></ul>	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:139:	
GGGAATCTTG GTTTTTGGCA TCTGGTTTGC CTATAGCCGA GGCCACTTTG ACAGAACAAA GAAAGGGACT TCGAGTAAGA AGGTGATTTA CAGCCAGCCT AGTGCCCGAA GTGAAGGAGA ATTCAAACAG ACCTCGTCAT TCCTGGTGTG AGCCTGGTCG GCTCACCGCC TATCATCTGC ATTTGCCTTA CTCAGGTGCT ACCGGACTCT GGCCCCTGAT GTCTGTAGTT TCACAGGATG CCTTATTTGT CTTCTACACC CCACAGGGCC CCCTACTTCT TCGGATGTT TTTTAATAAT GTCAGCTATG TGCCCCATCC TCCTTCATGC CCTCCCCC TTTCCTACCA CTGCTGAGTG GCCTGGAACT TGTTTAAAGT GT	60 120 180 240 300 360 382
(2) INFORMATION FOR SEQ ID NO:140:	
<ul><li>(i) SEQUENCE CHARACTERISTICS:</li><li>(A) LENGTH: 200 base pairs</li><li>(B) TYPE: nucleic acid</li><li>(C) STRANDEDNESS: single</li><li>(D) TOPOLOGY: linear</li></ul>	
(ii) MOLECULE TYPE: cDNA	
<pre>(vi) ORIGINAL SOURCE:     (A) ORGANISM: Homo sapiens</pre>	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:140:	
ACCAAANCTT CTTTCTGTTG TGTTNGATTT TACTATAGGG GTTTNGCTTN TTCTAAANAT ACTTTCATT TAACANCTTT TGTTAAGTGT CAGGCTGCAC TTTGCTCCAT ANAATTATTG TTTTCACATT TCAACTTGTA TGTGTTTGTC TCTTANAGCA TTGGTGAAAT CACATATTTT ATATTCAGCA TAAAGGAGAA	60 120 180 200

- (2) INFORMATION FOR SEQ ID NO:141:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 335 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: single
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (vi) ORIGINAL SOURCE:
    - (A) ORGANISM: Homo sapiens
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:141:

<b>ልርጥጥጥልጥጥጥ</b>	CAAAACACTC	ATATGTTGCA	AAAAACACAT	AGAAAAATAA	AGTTTGGTGG	60
CCCTCCTCAC	ΤΔΔΔСΤΤСΔΔ	GTCACAGACT	TTTATGTGAC	AGATTGGAGC	AGGGTTTGTT	120
A TO CA TO COAC	ACAACCCAAA	CTAATTTATT	ΔΔΔCAGGATA	GAAACAGGCT	GTCTGGGTGA	180
AIGCAIGIAG	AGAACCCAAA	AATTCACCTC	TCAGATGCTG	ATANACTAGC	TCTTCAGATG	240
AATGGTTCTG	AGAACCAICC	MATICACCIO	ACTANTTCCA	ATCCCCCAAAA	AGCAAGATGG	300
				AIGGOODAM	NOCIE IOITEO	335
ATTCACAAAC	CAAGTAATTT	TAAACAAAGA	CACTT			333

- (2) INFORMATION FOR SEQ ID NO:142:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 459 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: single
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (vi) ORIGINAL SOURCE:
    - (A) ORGANISM: Homo sapiens
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:142:

ACCAGGTTAA TATTGCCACA	TATATCCTTT	CCAATTGCGG	GCTAAACAGA	CGTGTATTTA	60
GGGTTGTTTA AAGACAACCC	አርርጥጥን አጥልጥ	CAAGAGAAAT	TGTGACCTTT	CATGGAGTAT	120
GGGTTGTTTA AAGACAACCC	AGCTIAATAT	CETOTION	TTCACATACC	አርጥርጥር አጥር <mark>አ</mark>	180
CTGATGGAGA AAACACTGAG	TTTTGACAAA	TCTTATTTTA	TICAGATAGC	AGICIOAICA	240
CACATGGTCC AACAACACTC	AAATAATAAA	TCAAATATNA	TCAGATGTTA	AAGATTGGTC	
TTCAAACATC ATAGCCAATG	ATGCCCCGCT	TGCCTATAAT	CTCTCCGACA	TAAAACCACA	300
TCAACACCTC AGTGGCCACC	<u>አአአሮሮአጥጥሮ</u> ል	CCACACCTTC	CTTAACTGTG	AGCTGTTTGA	360
TCAACACCTC AGIGGCCACC	AMACCATICA	TOTAL MACCO	CTCAATACCT	СТАСССАТСТ	420
AGCTACCAGT CTGAGCACTA			CIGAAIAGCI	CIAGOOMICI	459
CAGCANGGGT GGGAGGAACC	AGCTCAACCT	TGGCGTANT			433

- (2) INFORMATION FOR SEQ ID NO:143:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 140 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: single
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (vi) ORIGINAL SOURCE:

CAA

(A) ORGANISM: Homo sapiens	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:143:	
ACATTTCCTT CCACCAAGTC AGGACTCCTG GCTTCTGTGG GAGTTCTTAT CACCTGAGGG AAATCCAAAC AGTCTCTCCT AGAAAGGAAT AGTGTCACCA ACCCCACCCA TCTCCCTGAG ACCATCCGAC TTCCCTGTGT	60 120 140
(2) INFORMATION FOR SEQ ID NO:144:	
<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 164 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: single</li> <li>(D) TOPOLOGY: linear</li> </ul>	
(ii) MOLECULE TYPE: cDNA	
<pre>(vi) ORIGINAL SOURCE:     (A) ORGANISM: Homo sapiens</pre>	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:144:	
ACTTCAGTAA CAACATACAA TAACAACATT AAGTGTATAT TGCCATCTTT GTCATTTCT ATCTATACCA CTCTCCCTTC TGAAAACAAN AATCACTANC CAATCACTTA TACAAATTTG AGGCAATTAA TCCATATTTG TTTTCAATAA GGAAAAAAAG ATGT	60 120 164
(2) INFORMATION FOR SEQ ID NO:145:	
<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 303 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: single</li> <li>(D) TOPOLOGY: linear</li> </ul>	
(ii) MOLECULE TYPE: cDNA	
<pre>(vi) ORIGINAL SOURCE:     (A) ORGANISM: Homo sapiens</pre>	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:145:	
ACGTAGACCA TCCAACTTG TATTTGTAAT GGCAAACATC CAGNAGCAAT TCCTAAACAA ACTGGAGGGT ATTTATACCC AATTATCCCA TTCATTAACA TGCCCTCCTC CTCAGGCTAT GCAGGACAGC TATCATAAGT CGGCCCAGGC ATCCAGATAC TACCATTTGT ATAAACTTCA GTAGGGGAGT CCATCCAAGT GACAGGTCTA ATCAAAGGAG GACATGGAAC ATAAGCCCAG TAGTAAAATN TTGCTTAGCT GAAACAGCCA CAAAAGACTT ACCGCCGTGG TGATTACCAT	60 120 180 240 300
INGIAMMIN IIGCIINGCI GAMMCAGCCA CAMAAGACII ACCGCCGIGG IGAIIACCAI	200

303

- (2) INFORMATION FOR SEQ ID NO:146:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 327 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: single
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA

(vi)	ORIGINAL	SOURCE:
	(A) ORG	ANTSM: F

(A) ORGANISM: Homo sapiens

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:146:

ACTGCAGCTC AATTAGAAGT	GGTCTCTGAC	TTTCATCANC	TTCTCCCTGG	GCTCCATGAC	60
ACTGGCCTGG AGTGACTCAT	TGCTCTGGTT	GGTTGAGAGA	GCTCCTTTGC	CAACAGGCCT	120
CCAAGTCAGG GCTGGGATTT	GTTTCCTTTC	CACATTCTAG	CAACAATATG	CTGGCCACTT	180
CCTGAACAGG GAGGGTGGGA					240
AGACTTGCCC CTGGGCCTGT	CACACCTACT	GATGACCTTC	TGTGCCTGCA	GGATGGAATG	300
TAGGGGTGAG CTGTGTGACT					327

# (2) INFORMATION FOR SEQ ID NO:147:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 173 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (vi) ORIGINAL SOURCE:
  - (A) ORGANISM: Homo sapiens
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:147:

ACATTGTTTT	TTTGAGATAA	AGCATTGANA	GAGCTCTCCT	TAACGTGACA	CAATGGAAGG	60
					GTCTTGCTGT	120
ATATTCAAGC	ACATATGTTA	TATATTATTC	AGTTCCATGT	TTATAGCCTA	GTT	173

- (2) INFORMATION FOR SEQ ID NO:148:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 477 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: single
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (vi) ORIGINAL SOURCE:
    - (A) ORGANISM: Homo sapiens
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:148:

ACAACCACTT	TATCTCATCG	AATTTTTAAC	CCAAACTCAC	TCACTGTGCC	TTTCTATCCT	60
				ATGAATAATA		120
GCCCTACTAC	CTGCTGCAAT	AATCACATTC	CCTTCCTGTC	CTGACCCTGA	AGCCATTGGG	180
GTGGTCCTAG	TGGCCATCAG	TCCANGCCTG	CACCTTGAGC	CCTTGAGCTC	CATTGCTCAC	240
				CTCCTTGCTC		300
				ACTCTACCCG		360
				ACACNCACAC		420
CCAGGCACAG	GCTACCTCAT	CTTCACAATC	ACCCCTTTAA	TTACCATGCT	ATGGTGG	477

(2) INFORMATION FOR SEQ ID NO:149:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 207 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: single

(D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
<pre>(vi) ORIGINAL SOURCE:     (A) ORGANISM: Homo sapiens</pre>	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:149:	
ACAGTTGTAT TATAATATCA AGAAATAAAC TTGCAATGAG AGCATTTAAG AGGGAAGAAC TAACGTATTT TAGAGAGCCA AGGAAGGTTT CTGTGGGGAG TGGGATGTAA GGTGGGGCCT GATGATAAAT AAGAGTCAGC CAGGTAAGTG GGTGGTGTGG TATGGGCACA GTGAAGAACA TTTCAGGCAG AGGGAACAGC AGTGAAA	60 120 180 207
(2) INFORMATION FOR SEQ ID NO:150:	
<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 111 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: single</li> <li>(D) TOPOLOGY: linear</li> </ul>	
(ii) MOLECULE TYPE: cDNA	
<pre>(vi) ORIGINAL SOURCE:     (A) ORGANISM: Homo sapiens</pre>	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:150:	
ACCTTGATTT CATTGCTGCT CTGATGGAAA CCCAACTATC TAATTTAGCT AAAACATGGG CACTTAAATG TGGTCAGTGT TTGGACTTGT TAACTANTGG CATCTTTGGG T	60 111
(2) INFORMATION FOR SEQ ID NO:151:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 196 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: single  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
<pre>(vi) ORIGINAL SOURCE:     (A) ORGANISM: Homo sapiens</pre>	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:151:	
AGCGCGGCAG GTCATATTGA ACATTCCAGA TACCTATCAT TACTCGATGC TGTTGATAAC AGCAAGATGG CTTTGAACTC AGGGTCACCA CCAGCTATTG GACCTTACTA TGAAAACCAT GGATACCAAC CGGAAAACCC CTATCCCGCA CAGCCCACTG TGGTCCCCAC TGTCTACGAG GTGCATCCGG CTCAGT	60 120 180 196
(2) INFORMATION FOR SEQ ID NO:152:	

<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 132 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: single</li> <li>(D) TOPOLOGY: linear</li> </ul>
(ii) MOLECULE TYPE: cDNA
<ul><li>(vi) ORIGINAL SOURCE:</li><li>(A) ORGANISM: Homo sapiens</li></ul>
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:152:
ACAGCACTTT CACATGTAAG AAGGGAGAAA TTCCTAAATG TAGGAGAAAG ATAACAGAAC 60 CTTCCCCTTT TCATCTAGTG GTGGAAACCT GATGCTTTAT GTTGACAGGA ATAGAACCAG 120 GAGGGAGTTT GT
(2) INFORMATION FOR SEQ ID NO:153:
<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 285 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: single</li> <li>(D) TOPOLOGY: linear</li> </ul>
(ii) MOLECULE TYPE: cDNA
<pre>(vi) ORIGINAL SOURCE:     (A) ORGANISM: Homo sapiens</pre>
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:153:
ACAANACCCA NGANAGGCCA CTGGCCGTGG TGTCATGGCC TCCAAACATG AAAGTGTCAG CTTCTGCTCT TATGTCCTCA TCTGACAACT CTTTACCATT TTTATCCTCG CTCAGCAGGA GCACATCAAT AAAGTCCAAA GTCTTGGACT TGGCCTTGGC TTGGAGGAAG TCATCAACAC CCTGGCTAGT GAGGGTGCGG CGCCGCTCCT GGATGACGGC ATCTGTGAAG TCGTGCACCA GTCTGCAGGC CCTGTGGAAG CGCCGTCCAC ACGGAGTNAG GAATT 285
(2) INFORMATION FOR SEQ ID NO:154:
<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 333 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: single</li> <li>(D) TOPOLOGY: linear</li> </ul>
(ii) MOLECULE TYPE: cDNA
<pre>(vi) ORIGINAL SOURCE:    (A) ORGANISM: Homo sapiens</pre>
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:154:
ACCACAGTCC TGTTGGGCCA GGGCTTCATG ACCCTTTCTG TGAAAAGCCA TATTATCACC ACCCCAAATT TTTCCTTAAA TATCTTTAAC TGAAGGGGTC AGCCTCTTGA CTGCAAAGAC CCTAAGCCGG TTACACAGCT AACTCCCACT GGCCCTGATT TGTGAAATTG CTGCTGCCTG ATTGGCACAG GAGTCGAAGG TGTTCAGCTC CCCTCCTCCG TGGAACGAGA CTCTGATTTG AGTTTCACAA ATTCTCGGGC CACCTCGTCA TTGCTCCTCT GAAATAAAAT CCGGAGAATG

GTCAGGCCTG TCTCATCCAT ATGGATCTTC CGG

(ii) MOLECULE TYPE: cDNA

(A) ORGANISM: Homo sapiens

(vi) ORIGINAL SOURCE:

333

(2) INFORMATION FOR SEQ ID NO:155:	
<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 308 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: single</li> <li>(D) TOPOLOGY: linear</li> </ul>	
(ii) MOLECULE TYPE: cDNA	
<pre>(vi) ORIGINAL SOURCE:    (A) ORGANISM: Homo sapiens</pre>	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:155:	
ACTGGAAATA ATAAAACCCA CATCACAGTG TTGTGTCAAA GATCATCAGG GCATGGATGG GAAAGTGCTT TGGGAACTGT AAAGTGCCTA ACACATGATC GATGATTTTT GTTATAATAT TTGAATCACG GTGCATACAA ACTCTCCTGC CTGCTCCTCC TGGGCCCCAG CCCCAGCCCC ATCACAGCTC ACTGCTCTGT TCATCCAGGC CCAGCATGTA GTGGCTGATT CTTCTTGGCT GCTTTTAGCC TCCANAAGTT TCTCTGAAGC CAACCAAACC TCTANGTGTA AGGCATGCTG GCCCTGGT	60 120 180 240 300 308
(2) INFORMATION FOR SEQ ID NO:156:	
<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 295 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: single</li> <li>(D) TOPOLOGY: linear</li> </ul>	
(ii) MOLECULE TYPE: cDNA	
<pre>(vi) ORIGINAL SOURCE:     (A) ORGANISM: Homo sapiens</pre>	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:156:	
ACCTTGCTCG GTGCTTGGAA CATATTAGGA ACTCAAAATA TGAGATGATA ACAGTGCCTA TTATTGATTA CTGAGAGAAC TGTTAGACAT TTAGTTGAAG ATTTTCTACA CAGGAACTGA GAATAGGAGA TTATGTTTGG CCCTCATATT CTCTCCTATC CTCCTTGCCT CATTCTATGT CTAATATATT CTCAATCAAA TAAGGTTAGC ATAATCAGGA AATCGACCAA ATACCAATAT AAAACCAGAT GTCTATCCTT AAGATTTCA AATAGAAAAC AAATTAACAG ACTAT	60 120 180 240 295
(2) INFORMATION FOR SEQ ID NO:157:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 126 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: single  (D) TOPOLOGY: linear	

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:157:

ACAAGTTTAA ATAGTGCTGT	CACTGTGCAT	GTGCTGAAAT	GTGAAATCCA	CCACATTTCT	60
GAAGAGCAAA ACAAATTCTG					
CTTAGT					126

- (2) INFORMATION FOR SEQ ID NO:158:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 442 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: single
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (vi) ORIGINAL SOURCE:
    - (A) ORGANISM: Homo sapiens
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:158:

BAAACA CCCATCCTTA	ATACGATGAT	TTTTCTGTCG	TGTGAAAATG	60
CCCCTA GTCAGTCCTT	CCTTCCAGAG	AAAAAGAGAT	TTGAGAAAGT	120
CCATTA ATTTCCTCCC	CCAAACTCTC	TGAGTCTTCC	CTTAATATTT	180
CAAAGC AGGTCATGGT	TTGTTGAGCA	TTTGGGATCC	CAGTGAAGTA	240
IGCATA CTTAGCCCTT	CCCACGCACA	AACGGAGTGG	CAGAGTGGTG	300
CCAGTC CACGTAGACA	GATTCACAGT	GCGGAATTCT	GGAAGCTGGA	360
TTGCAG AGCCGGGACT	CTGAGANGGA	CATGAGGGCC	TCTGCCTCTG	420
IGTCCT GT				442
	CCCTA GTCAGTCCTT CCATTA ATTTCCTCCC CAAAGC AGGTCATGGT CGCATA CTTAGCCCTT CCAGTC CACGTAGACA TTGCAG AGCCGGGACT	CCCTA GTCAGTCCTT CCTTCCAGAG CCATTA ATTTCCTCCC CCAAACTCTC CAAAGC AGGTCATGGT TTGTTGAGCA CGCATA CTTAGCCCTT CCCACGCACA CCAGTC CACGTAGACA GATTCACAGT CTGCAG AGCCGGGACT CTGAGANGGA	CCCTA GTCAGTCCTT CCTTCCAGAG AAAAAGAGAT CCATTA ATTTCCTCCC CCAAACTCTC TGAGTCTTCC CAAAGC AGGTCATGGT TTGTTGAGCA TTTGGGATCC CGCATA CTTAGCCCTT CCCACGCACA AACGGAGTGG CCAGTC CACGTAGACA GATTCACAGT GCGGAATTCT TTGCAG AGCCGGGACT CTGAGANGGA CATGAGGGCC	GAAACA CCCATCCTTA ATACGATGAT TTTTCTGTCG TGTGAAAATG CCCCTA GTCAGTCCTT CCTTCCAGAG AAAAAGAGAT TTGAGAAAGT CCATTA ATTTCCTCCC CCAAACTCTC TGAGTCTTCC CTTAATATTT CAAAGC AGGTCATGGT TTGTTGAGCA TTTGGGATCC CAGTGAAGTA CCCATA CTTAGCCCTT CCCACGCACA AACGGAGTGG CAGAGTGGTG CCAGTC CACGTAGACA GATTCACAGT GCGGAATTCT GGAAGCTGGA CTGCAG AGCCGGGACT CTGAGANGGA CATGAGGGCC TCTGCCTCTG CGTCCT GT

- (2) INFORMATION FOR SEQ ID NO:159:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 498 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: single
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (vi) ORIGINAL SOURCE:
    - (A) ORGANISM: Homo sapiens
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:159:

ACTTCCAGGT	AACGTTGTTG	TTTCCGTTGA	GCCTGAACTG	ATGGGTGACG	TTGTAGGTTC	60
TCCAACAAGA	ACTGAGGTTG	CAGAGCGGGT	AGGGAAGAGT	GCTGTTCCAG	TTGCACCTGG	120
GCTGCTGTGG	ACTGTTGTTG	ATTCCTCACT	ACGGCCCAAG	GTTGTGGAAC	TGGCANAAAG	180
GTGTGTTGTT	GGANTTGAGC	TCGGGCGGCT	GTGGTAGGTT	GTGGGCTCTT	CAACAGGGGC	240
TGCTGTGGTG	CCGGGANGTG	AANGTGTTGT	GTCACTTGAG	CTTGGCCAGC	TCTGGAAAGT	300
ANTANATTCT	TCCTGAAGGC	CAGCGCTTGT	GGAGCTGGCA	NGGGTCANTG	TTGTGTGTAA	360
CGAACCAGTG	CTGCTGTGGG	TGGGTGTANA	TCCTCCACAA	AGCCTGAAGT	TATGGTGTCN	420
TCAGGTAANA	ATGTGGTTTC	AGTGTCCCTG	GGCNGCTGTG	GAAGGTTGTA	NATTGTCACC	480
AAGGGAATAA	GCTGTGGT					498

- (2) INFORMATION FOR SEQ ID NO:160:
  - (i) SEQUENCE CHARACTERISTICS:

<ul><li>(A) LENGTH: 380 base pairs</li><li>(B) TYPE: nucleic acid</li><li>(C) STRANDEDNESS: single</li><li>(D) TOPOLOGY: linear</li></ul>	
(ii) MOLECULE TYPE: cDNA	
<pre>(vi) ORIGINAL SOURCE:     (A) ORGANISM: Homo sapiens</pre>	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:160:	
ACCTGCATCC AGCTTCCCTG CCAAACTCAC AAGGAGACAT CAACCTCTAG ACAGGGAAAC AGCTTCAGGA TACTTCCAGG AGACAGAGCC ACCAGCAGCA AAACAAATAT TCCCATGCCT GGAGCATGGC ATAGAGGAAG CTGANAAATG TGGGGTCTGA GGAAGCCATT TGAGTCTGGC CACTAGACAT CTCCATCAGC ACTTGTGTA AGAGATGCCC CATGACCCCA GATGCCTCTC CCACCCTTAC CTCCATCTCA CACACTTGAG CTTTCCACTC TGTATAATTC TAACATCCTG GAGAAAAATG GCAGTTTGAC CGAACCTGTT CACAACGGTA GAGGCTGATT TCTAACGAAA CTTGTAGAAT GAAGCCTGGA	60 120 180 240 300 360 380
(2) INFORMATION FOR SEQ ID NO:161:	
<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 114 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: single</li> <li>(D) TOPOLOGY: linear</li> </ul>	
(ii) MOLECULE TYPE: cDNA	
<pre>(vi) ORIGINAL SOURCE:     (A) ORGANISM: Homo sapiens</pre>	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:161:	
ACTCCACATC CCCTCTGAGC AGGCGGTTGT CGTTCAAGGT GTATTTGGCC TTGCCTGTCA CACTGTCCAC TGGCCCCTTA TCCACTTGGT GCTTAATCCC TCGAAAGAGC ATGT	60 114
(2) INFORMATION FOR SEQ ID NO:162:	
<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 177 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: single</li> <li>(D) TOPOLOGY: linear</li> </ul>	
(ii) MOLECULE TYPE: cDNA	
<pre>(vi) ORIGINAL SOURCE:     (A) ORGANISM: Homo sapiens</pre>	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:162:	
ACTTTCTGAA TCGAATCAAA TGATACTTAG TGTAGTTTTA ATATCCTCAT ATATATCAAA GTTTTACTAC TCTGATAATT TTGTAAACCA GGTAACCAGA ACATCCAGTC ATACAGCTTT TGGTGATATA TAACTTGGCA ATAACCCAGT CTGGTGATAC ATAAAACTAC TCACTGT	60 120 177
(2) INFORMATION FOR SEQ ID NO:163:	

<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 137 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: single</li> <li>(D) TOPOLOGY: linear</li> </ul>	
(ii) MOLECULE TYPE: cDNA	
<pre>(vi) ORIGINAL SOURCE:     (A) ORGANISM: Homo sapiens</pre>	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:163:	
CATTTATACA GACAGGCGTG AAGACATTCA CGACAAAAAC GCGAAATTCT ATCCCGTGAC CANAGAAGGC AGCTACGGCT ACTCCTACAT CCTGGCGTGG GTGGCCTTCG CCTGCACCTT CATCAGCGGC ATGATGT	60 120 137
(2) INFORMATION FOR SEQ ID NO:164:	
<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 469 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: single</li> <li>(D) TOPOLOGY: linear</li> </ul>	
(ii) MOLECULE TYPE: cDNA	
<pre>(vi) ORIGINAL SOURCE:     (A) ORGANISM: Homo sapiens</pre>	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:164:	
CTTATCACAA TGAATGTTCT CCTGGGCAGC GTTGTGATCT TTGCCACCTT CGTGACTTTA TGCAATGCAT CATGCTATTT CATACCTAAT GAGGGAGTTC CAGGAGATTC AACCAGGAAA TGCATGGATC TCAAAGGAAA CAAACACCCA ATAAACTCGG AGTGGCAGAC TGACAACTGT GAGACATGCA CTTGCTACGA AACAGAAATT TCATGTTGCA CCCTTGTTTC TACACCTGTG GGTTATGACA AAGACACTG CCAAAGAATC TTCAAGAAGG AGGACTGCAA GTATATCGTG GTGGAGAAGA AGGACCCAAA AAAGACCTGT TCTGTCAGTG AATGGATAAT CTAATGTGCT TCTAGTAGGC ACAGGGCTCC CAGGCCAGGC CTCATTCTCC TCTGGCCTCT AATAGTCAAT GATTGTGTAG CCATGCCTAT CAGTAAAAAG ATNTTTGAGC AAACACTTT	60 120 180 240 300 360 420 469
(2) INFORMATION FOR SEQ ID NO:165:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 195 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: single  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
<pre>(vi) ORIGINAL SOURCE:    (A) ORGANISM: Homo sapiens</pre>	

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:165:

ATCCGCTGTC ATCCACTATT CCTTGGCTAG AGTAAAAATT ATTCTTATAG CCCATGTCCC TGCAGGCCGC CCGCCCGTAG TTCTCGTTCC AGTCGTCTTG GCACACAGGG TGCCAGGACT TCCTCTGAGA TGAGT	120 180 195
(2) INFORMATION FOR SEQ ID NO:166:	
<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 383 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: single</li> <li>(D) TOPOLOGY: linear</li> </ul>	
(ii) MOLECULE TYPE: cDNA	
<pre>(vi) ORIGINAL SOURCE:     (A) ORGANISM: Homo sapiens</pre>	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:166:	
ACATCTTAGT AGTGTGGCAC ATCAGGGGGC CATCAGGGTC ACAGTCACTC ATAGCCTCGC CGAGGTCGGA GTCCACACCA CCGGTGTAGG TGTGCTCAAT CTTGGGCTTG GCGCCACCT TTGGAGAAGG GATATGCTGC ACACACATGT CCACAAAGCC TGTGAACTCG CCAAAGAATT TTGCAGACC AGCCTGAGCA AGGGGCGGAT GTTCAGCTTC AGCTCCTCT TCGTCAGGTG GATGCCAACC TCGTCTANGG TCCGTGGGAA GCTGGTGTCC ACNTCACCTA CAACCTGGGC GANGATCTTA TAAAGAGGCT CCNAGATAAA CTCCACGAAA CTTCTCTGGG AGCTGCTAGT NGGGGCCTTT TTGGTGAACT TTC	60 120 180 240 300 360 383
(2) INFORMATION FOR SEQ ID NO:167:	
<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 247 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: single</li> <li>(D) TOPOLOGY: linear</li> </ul>	
(ii) MOLECULE TYPE: cDNA	
<pre>(vi) ORIGINAL SOURCE:     (A) ORGANISM: Homo sapiens</pre>	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:167:	
ACAGAGCCAG ACCTTGGCCA TAAATGAANC AGAGATTAAG ACTAAACCCC AAGTCGANAT TGGAGCAGAA ACTGGAGCAA GAAGTGGGCC TGGGGCTGAA GTAGAGACCA AGGCCACTGC TATANCCATA CACAGAGCCA ACTCTCAGGC CAAGGCNATG GTTGGGGCAG ANCCAGAGAC TCAATCTGAN TCCAAAGTGG TGGCTGGAAC ACTGGTCATG ACANAGGCAG TGACTCTGAC TGANGTC	60 120 180 240 247
(2) INFORMATION FOR SEQ ID NO:168:	
<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 273 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: single</li> <li>(D) TOPOLOGY: linear</li> </ul>	

(ii) MOLECULE TYPE: cDNA

(vi) ORIGINAL	SOURCE:
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(A) ORGANISM: Homo sapiens

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:168:

ACTTCTAAGT TTTCTAGAAG	TGGAAGGATT	GTANTCATCC	TGAAAATGGG	TTTACTTCAA	60
AATCCCTCAN CCTTGTTCTT					120
GCTGACACCT GAGCCTGNAT	TTTCACTCAT	CCCTGAGAAG	CCCTTTCCAG	TAGGGTGGGC	180
AATTCCCAAC TTCCTTGCCA					240
AGTCCCAGAT ACACTCATGG	GCTGCCCTGG	GCA			273

- (2) INFORMATION FOR SEQ ID NO:169:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 431 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: single
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (vi) ORIGINAL SOURCE:
    - (A) ORGANISM: Homo sapiens
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:169:

ACAGCCTTGG CTTCCCCAA	CTCCACAGTC	TCAGTGCAGA	AAGATCATCT	TCCAGCAGTC	60
AGCTCAGACC AGGGTCAAAC	GATGTGACAT	CAACAGTTTC	TGGTTTCAGA	ACAGGTTCTA	120
CTACTGTCAA ATGACCCCCC	ATACTTCCTC	AAAGGCTGTG	GTAAGTTTTG	CACAGGTGAG	180
GGCAGCAGAA AGGGGGTANT	TACTGATGGA	CACCATCTTC	TCTGTATACT	CCACACTGAC	240
CTTGCCATGG GCAAAGGCCC	· CTACCACAAA	AACAATAGGA	TCACTGCTGG	GCACCAGCTC	300
ACGCACATCA CTGACAACCO	CONTEGADA	AGAANTGCCA	ACTTTCATAC	ATCCAACTGG	360
AAAGTGATCT GATACTGGAT	TOTTANTTAC	CTTCAAAAGC	TTCTGGGGGC	CATCAGCTGC	420
	. ICTIANTIAC	CIICAAAA	110100000		431
TCGAACACTG A					

- (2) INFORMATION FOR SEQ ID NO:170:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 266 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: single
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (vi) ORIGINAL SOURCE:
    - (A) ORGANISM: Homo sapiens
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:170:

ACCTGTGGGC TGGGCTGTTA	TGCCTGTGCC	GGCTGCTGAA	AGGGAGTTCA	GAGGTGGAGC	60
TCAAGGAGCT CTGCAGGCAT	TTTGCCAANC	CTCTCCANAG	CANAGGGAGC	AACCTACACT	120
CCCGCTAGA AAGACACCAG	ATTGGAGTCC	TGGGAGGGG	AGTTGGGGTG	GGCATTTGAT	180
GTATACTTGT CACCTGAATG	ANGAGCCAG	AGAGGAANGA	GACGAANATG	ANATTGGCCT	240
TCAAAGCTAG GGGTCTGGCA					266

(2) INFORMATION FOR SEQ ID NO:171:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 1248 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (vi) ORIGINAL SOURCE:
  - (A) ORGANISM: Homo sapiens
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:171:

GGCAGCCAAA	TCATAAACGG	CGAGGACTGC	AGCCCGCACT	CGCAGCCCTG	GCAGGCGGCA	60
CTGGTCATGG	AAAACGAATT	GTTCTGCTCG	GGCGTCCTGG	TGCATCCGCA	GTGGGTGCTG	120
TCAGCCGCAC	ACTGTTTCCA	GAAGTGAGTG	CAGAGCTCCT	ACACCATCGG	GCTGGGCCTG	180
CACAGTCTTG	AGGCCGACCA	AGAGCCAGGG	AGCCAGATGG	TGGAGGCCAG	CCTCTCCGTA	240
CGGCACCCAG	AGTACAACAG	ACCCTTGCTC	GCTAACGACC	TCATGCTCAT	CAAGTTGGAC	300
GAATCCGTGT	CCGAGTCTGA	CACCATCCGG	AGCATCAGCA	TTGCTTCGCA	GTGCCCTACC	360
GCGGGGAACT	CTTGCCTCGT	TTCTGGCTGG	GGTCTGCTGG	CGAACGGCAG	AATGCCTACC	420
GTGCTGCAGT	GCGTGAACGT	GTCGGTGGTG	TCTGAGGAGG	TCTGCAGTAA	GCTCTATGAC	480
CCGCTGTACC	ACCCCAGCAT	GTTCTGCGCC	GGCGGAGGGC	AAGACCAGAA	GGACTCCTGC	540
AACGGTGACT	CTGGGGGGCC	CCTGATCTGC	AACGGGTACT	TGCAGGGCCT	TGTGTCTTTC	600
GGAAAAGCCC	CGTGTGGCCA	AGTTGGCGTG	CCAGGTGTCT	ACACCAACCT	CTGCAAATTC	660
ACTGAGTGGA	TAGAGAAAAC	CGTCCAGGCC	AGTTAACTCT	GGGGACTGGG	AACCCATGAA	720
ATTGACCCCC	AAATACATCC	TGCGGAAGGA	ATTCAGGAAT	ATCTGTTCCC	AGCCCCTCCT	780
CCCTCAGGCC	CAGGAGTCCA	GGCCCCCAGC	CCCTCCTCCC	TCAAACCAAG	GGTACAGATC	840
CCCAGCCCCT	CCTCCCTCAG	ACCCAGGAGT	CCAGACCCCC	CAGCCCCTCC	TCCCTCAGAC	900
CCAGGAGTCC	AGCCCCTCCT	CCCTCAGACC	CAGGAGTCCA	GACCCCCCAG	CCCCTCCTCC	960
CTCAGACCCA	GGGGTCCAGG	CCCCCAACCC	CTCCTCCCTC	AGACTCAGAG	GTCCAAGCCC	1020
CCAACCCNTC	ATTCCCCAGA	CCCAGAGGTC	CAGGTCCCAG	CCCCTCNTCC	CTCAGACCCA	1080
GCGGTCCAAT	GCCACCTAGA	CTNTCCCTGT	ACACAGTGCC	CCCTTGTGGC	ACGTTGACCC	1140
AACCTTACCA	GTTGGTTTTT	CATTTTTNGT	CCCTTTCCCC	TAGATCCAGA	AATAAAGTTT	1200
AAGAGAAGNG	CAAAAAAAAA	AAAAAAAAA	AAAAAAAAA	AAAAAAA		1248

- (2) INFORMATION FOR SEQ ID NO:172:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 159 amino acids
    - (B) TYPE: amino acid
    - (C) STRANDEDNESS: single
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: protein
  - (vi) ORIGINAL SOURCE:
    - (A) ORGANISM: Homo sapiens
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:172:

Met Val Glu Ala Ser Leu Ser Val Arg His Pro Glu Tyr Asn Arg Pro 1 5 10 15

Leu Leu Ala Asn Asp Leu Met Leu Ile Lys Leu Asp Glu Ser Val Ser 20 25 30

Glu Ser Asp Thr Ile Arg Ser Ile Ser Ile Ala Ser Gln Cys Pro Thr

Ala Gly Asn Ser Cys Leu Val Ser Gly Trp Gly Leu Leu Ala Asn Gly 800

Arg Met Pro Thr Val Leu Gln Cys Val Asn Pro Ser Val Val Ser Gly Rou Val Asn Val Ser Val Val Ser Glu 800

Glu Val Cys Ser Lys Leu Tyr Asp Pro Leu Tyr His Pro Ser Met Phe 95

Cys Ala Gly Rro Leu Ile Cys Asn Gly Tyr Leu Gln Gly Leu Cys Val Asn Gly Asn Gly Rou Val Ser Rhe

Gly Lys Ala Pro Cys Gly Gly Gln Val Gln Val Gly Tyr Leu Gln Gly Leu Val Ser Phe

Leu Cys Lys Phe Thr Glu Trp Ile Glu Lys Thr Val Gln Ala Ser Indiana

- (2) INFORMATION FOR SEQ ID NO:173:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 1265 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: single
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (vi) ORIGINAL SOURCE:
    - (A) ORGANISM: Homo sapiens
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:173:

GGCAGCCCGC	ACTCGCAGCC	CTGGCAGGCG	GCACTGGTCA	TGGAAAACGA	ATTGTTCTGC	60
TCGGGCGTCC	TGGTGCATCC	GCAGTGGGTG	CTGTCAGCCG	CACACTGTTT	CCAGAACTCC	120
TACACCATCG	GGCTGGGCCT	GCACAGTCTT	GAGGCCGACC	AAGAGCCAGG	GAGCCAGATG	180
GTGGAGGCCA		ACGGCACCCA	GAGTACAACA	GACCCTTGCT	CGCTAACGAC	240
CTCATGCTCA	TCAAGTTGGA	CGAATCCGTG	TCCGAGTCTG	ACACCATCCG	GAGCATCAGC	300
ATTGCTTCGC	AGTGCCCTAC	CGCGGGGAAC	TCTTGCCTCG	TTTCTGGCTG	GGGTCTGCTG	360
GCGAACGGTG	AGCTCACGGG	TGTGTGTCTG	CCCTCTTCAA	GGAGGTCCTC	TGCCCAGTCG	420
CGGGGGGCTGA	CCCAGAGCTC	TGCGTCCCAG	GCAGAATGCC	TACCGTGCTG	CAGTGCGTGA	480
ACGTGTCGGT	GGTGTCTGAG	GAGGTCTGCA	GTAAGCTCTA	TGACCCGCTG	TACCACCCCA	540
GCATGTTCTG	CGCCGGCGGA	GGGCAAGACC	AGAAGGACTC	CTGCAACGGT	GACTCTGGGG	600
GGCCCCTGAT	CTGCAACGGG	TACTTGCAGG	GCCTTGTGTC	TTTCGGAAAA	GCCCCGTGTG	660
GCCAAGTTGG	CGTGCCAGGT	GTCTACACCA	ACCTCTGCAA	ATTCACTGAG	TGGATAGAGA	720
AAACCGTCCA	GGCCAGTTAA	CTCTGGGGAC	TGGGAACCCA	TGAAATTGAC	CCCCAAATAC	780
ATCCTGCGGA	AGGAATTCAG	GAATATCTGT	TCCCAGCCCC	TCCTCCCTCA	GGCCCAGGAG	840
TCCAGGCCCC	CAGCCCCTCC	TCCCTCAAAC	CAAGGGTACA	GATCCCCAGC	CCCTCCTCCC	900
TCAGACCCAG	GAGTCCAGAC	CCCCCAGCCC	CTCCTCCCTC	AGACCCAGGA	GTCCAGCCCC	960
TCCTCCNTCA	GACCCAGGAG	TCCAGACCCC	CCAGCCCCTC	CTCCCTCAGA	CCCAGGGGTT	1020
GAGGCCCCCA		CTTCAGAGTC	AGAGGTCCAA	GCCCCCAACC	CCTCGTTCCC	1080
CAGACCCAGA	GGTNNAGGTC	CCAGCCCCTC	TTCCNTCAGA	CCCAGNGGTC	CAATGCCACC	1140
TAGATTTTCC	CTGNACACAG	TGCCCCCTTG	TGGNANGTTG	ACCCAACCTT	ACCAGTTGGT	1200

TTTTCATTTT TNGTCCCTTT CCCCTAGATC CAGAAATAAA GTTTAAGAGA NGNGCAAAAA 1260 AAAAA 1265

- (2) INFORMATION FOR SEQ ID NO:174:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 1459 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: single
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (vi) ORIGINAL SOURCE:
    - (A) ORGANISM: Homo sapiens
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:174:

GGTCAGCCGC	ACACTGTTTC	CAGAAGTGAG	TGCAGAGCTC	CTACACCATC	GGGCTGGGCC	60
TGCACAGTCT	TGAGGCCGAC	CAAGAGCCAG	GGAGCCAGAT	GGTGGAGGCC	AGCCTCTCCG	120
TACGGCACCC	AGAGTACAAC	AGACCCTTGC	TCGCTAACGA	CCTCATGCTC	ATCAAGTTGG	180
ACGAATCCGT	GTCCGAGTCT	GACACCATCC	GGAGCATCAG	CATTGCTTCG	CAGTGCCCTA	240
CCGCGGGGAA	CTCTTGCCTC	GTTTCTGGCT	GGGGTCTGCT	GGCGAACGGT	GAGCTCACGG	300
GTGTGTGTCT	GCCCTCTTCA	AGGAGGTCCT	CTGCCCAGTC	GCGGGGGCTG	ACCCAGAGCT	360
CTGCGTCCCA	GGCAGAATGC	CTACCGTGCT	GCAGTGCGTG	AACGTGTCGG	TGGTGTCTGA	420
NGAGGTCTGC	ANTAAGCTCT	ATGACCCGCT	GTACCACCCC	ANCATGTTCT	GCGCCGGCGG	480
AGGGCAAGAC	CAGAAGGACT	CCTGCAACGT	GAGAGAGGGG	AAAGGGGAGG	GCAGGCGACT	540
CAGGGAAGGG	TGGAGAAGGG	GGAGACAGAG	ACACACAGGG	CCGCATGGCG	AGATGCAGAG	600
ATGGAGAGAC	ACACAGGGAG	ACAGTGACAA	CTAGAGAGAG	AAACTGAGAG	AAACAGAGAA	660
ATAAACACAG	GAATAAAGAG	AAGCAAAGGA	AGAGAGAAAC	AGAAACAGAC	ATGGGGAGGC	720
AGAAACACAC	ACACATAGAA	ATGCAGTTGA	CCTTCCAACA	GCATGGGGCC	TGAGGGCGGT	780
GACCTCCACC	CAATAGAAAA	TCCTCTTATA	ACTTTTGACT	CCCCAAAAAC	CTGACTAGAA	840
ATAGCCTACT	GTTGACGGGG	AGCCTTACCA	ATAACATAAA	TAGTCGATTT	ATGCATACGT	900
TTTATGCATT	CATGATATAC	CTTTGTTGGA	ATTTTTTGAT	ATTTCTAAGC	TACACAGTTC	960
GTCTGTGAAT	TTTTTTAAAT	TGTTGCAACT	CTCCTAAAAT	TTTTCTGATG	TGTTTATTGA	1020
AAAAATCCAA	GTATAAGTGG	ACTTGTGCAT	TCAAACCAGG	GTTGTTCAAG	GGTCAACTGT	1080
GTACCCAGAG	GGAAACAGTG	ACACAGATTC	ATAGAGGTGA	AACACGAAGA	GAAACAGGAA	1140
AAATCAAGAC	TCTACAAAGA	GGCTGGGCAG	GGTGGCTCAT	GCCTGTAATC	CCAGCACTTT	1200
GGGAGGCGAG	GCAGGCAGAT	CACTTGAGGT	AAGGAGTTCA	AGACCAGCCT	GGCCAAAATG	1260
GTGAAATCCT	GTCTGTACTA	AAAATACAAA	AGTTAGCTGG	ATATGGTGGC	AGGCGCCTGT	1320
AATCCCAGCT	ACTTGGGAGG	CTGAGGCAGG	AGAATTGCTT	GAATATGGGA	GGCAGAGGTT	1380
GAAGTGAGTT	GAGATCACAC	CACTATACTC	CAGCTGGGGC	AACAGAGTAA	GACTCTGTCT	1440
CAAAAAAAAA	AAAAAAAA					1459

- (2) INFORMATION FOR SEQ ID NO:175:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 1167 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: single
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (vi) ORIGINAL SOURCE:
    - (A) ORGANISM: Homo sapiens
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:175:

GCGCAGCCCT	GGCAGGCGGC	ACTGGTCATG	GAAAACGAAT	TGTTCTGCTC	GGGCGTCCTG	60
GTGCATCCGC	AGTGGGTGCT	GTCAGCCGCA	CACTGTTTCC	AGAACTCCTA	CACCATCGGG	120
CTGGGCCTGC	ACAGTCTTGA	GGCCGACCAA	GAGCCAGGGA	GCCAGATGGT	GGAGGCCAGC	180
CTCTCCGTAC	GGCACCCAGA	GTACAACAGA	CTCTTGCTCG	CTAACGACCT	CATGCTCATC	240
AAGTTGGACG	AATCCGTGTC	CGAGTCTGAC	ACCATCCGGA	GCATCAGCAT	TGCTTCGCAG	300
TGCCCTACCG	CGGGGAACTC	TTGCCTCGTN	TCTGGCTGGG	GTCTGCTGGC	GAACGGCAGA	360
ATGCCTACCG	TGCTGCACTG	CGTGAACGTG	TCGGTGGTGT	CTGAGGANGT	CTGCAGTAAG	420
CTCTATGACC	CGCTGTACCA	CCCCAGCATG	TTCTGCGCCG	GCGGAGGGCA	AGACCAGAAG	480
GACTCCTGCA	ACGGTGACTC	TGGGGGGCCC	CTGATCTGCA	ACGGGTACTT	GCAGGGCCTT	540
GTGTCTTTCG	GAAAAGCCCC	GTGTGGCCAA	CTTGGCGTGC	CAGGTGTCTA	CACCAACCTC	600
TGCAAATTCA	CTGAGTGGAT	AGAGAAAACC	GTCCAGNCCA	GTTAACTCTG	GGGACTGGGA	660
ACCCATGAAA	TTGACCCCCA	AATACATCCT	GCGGAANGAA	TTCAGGAATA	TCTGTTCCCA	720
GCCCCTCCTC	CCTCAGGCCC	AGGAGTCCAG	GCCCCAGCC	CCTCCTCCCT	CAAACCAAGG	780
GTACAGATCC	CCAGCCCCTC	CTCCCTCAGA	CCCAGGAGTC	CAGACCCCCC	AGCCCCTCNT	840
CCNTCAGACC	CAGGAGTCCA	GCCCCTCCTC	CNTCAGACGC	AGGAGTCCAG	ACCCCCCAGC	900
CCNTCNTCCG	TCAGACCCAG	GGGTGCAGGC	CCCCAACCCC	TCNTCCNTCA	GAGTCAGAGG	960
TCCAAGCCCC	CAACCCCTCG	TTCCCCAGAC	CCAGAGGTNC	AGGTCCCAGC	CCCTCCTCCC	1020
TCAGACCCAG	CGGTCCAATG	CCACCTAGAN	TNTCCCTGTA	CACAGTGCCC	CCTTGTGGCA	1080
NGTTGACCCA	ACCTTACCAG	TTGGTTTTTC	ATTTTTTGTC	CCTTTCCCCT	AGATCCAGAA	1140
ATAAAGTNTA	AGAGAAGCGC	AAAAAA				1167

#### (2) INFORMATION FOR SEQ ID NO:176:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 205 amino acids
  - (B) TYPE: amino acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: protein
- (vi) ORIGINAL SOURCE:
  - (A) ORGANISM: Homo sapiens
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:176:

Met Glu Asn Glu Leu Phe Cys Ser Gly Val Leu Val His Pro Gln Trp

1 10 15

Val Leu Ser Ala Ala His Cys Phe Gln Asn Ser Tyr Thr Ile Gly Leu 20 25 30

Gly Leu His Ser Leu Glu Ala Asp Gln Glu Pro Gly Ser Gln Met Val 35 40 45

Glu Ala Ser Leu Ser Val Arg His Pro Glu Tyr Asn Arg Leu Leu 50 55 60

Ala Asn Asp Leu Met Leu Ile Lys Leu Asp Glu Ser Val Ser Glu Ser 65 70 75 80

Asp Thr Ile Arg Ser Ile Ser Ile Ala Ser Gln Cys Pro Thr Ala Gly 85 90 95

Asn Ser Cys Leu Val Ser Gly Trp Gly Leu Leu Ala Asn Gly Arg Met 100 105 110

Pro Thr Val Leu His Cys Val Asn Val Ser Val Val Ser Glu Xaa Val 115 120 125

Cys Ser Lys Leu Tyr Asp Pro Leu Tyr His Pro Ser Met Phe Cys Ala 130 135 140

Gly Gly Gln Asp Gln Lys Asp Ser Cys Asn Gly Asp Ser Gly Gly 145 150 155 160

Pro Leu Ile Cys Asn Gly Tyr Leu Gln Gly Leu Val Ser Phe Gly Lys 165 170 175

Ala Pro Cys Gly Gln Leu Gly Val Pro Gly Val Tyr Thr Asn Leu Cys 180 185 190

Lys Phe Thr Glu Trp Ile Glu Lys Thr Val Gln Xaa Ser 195 200 205

- (2) INFORMATION FOR SEQ ID NO:177:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 1119 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: single
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (vi) ORIGINAL SOURCE:
    - (A) ORGANISM: Homo sapiens
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:177:

GCGCACTCGC	AGCCCTGGCA	GGCGGCACTG	GTCATGGAAA	ACGAATTGTT	CTGCTCGGGC	60
GTCCTGGTGC	ATCCGCAGTG	GGTGCTGTCA	GCCGCACACT	GTTTCCAGAA	CTCCTACACC	120
ATCGGGCTGG	GCCTGCACAG	TCTTGAGGCC	GACCAAGAGC	CAGGGAGCCA	GATGGTGGAG	180
GCCAGCCTCT	CCGTACGGCA	CCCAGAGTAC	AACAGACCCT	TGCTCGCTAA	CGACCTCATG	240
CTCATCAAGT	TGGACGAATC	CGTGTCCGAG	TCTGACACCA	TCCGGAGCAT	CAGCATTGCT	300
TCGCAGTGCC	CTACCGCGGG	GAACTCTTGC	CTCGTTTCTG	GCTGGGGTCT	GCTGGCGAAC	360
GATGCTGTGA	TTGCCATCCA	GTCCCAGACT	GTGGGAGGCT	GGGAGTGTGA	GAAGCTTTCC	420
CAACCCTGGC	AGGGTTGTAC	CATTTCGGCA	ACTTCCAGTG	CAAGGACGTC	CTGCTGCATC	480
CTCACTGGGT	GCTCACTACT	GCTCACTGCA	TCACCCGGAA	CACTGTGATC	AACTAGCCAG	540
CACCATAGTT	CTCCGAAGTC	AGACTATCAT	GATTACTGTG	TTGACTGTGC	TGTCTATTGT	600
ACTAACCATG	CCGATGTTTA	GGTGAAATTA	GCGTCACTTG	GCCTCAACCA	TCTTGGTATC	660
CAGTTATCCT	CACTGAATTG	AGATTTCCTG	CTTCAGTGTC	AGCCATTCCC	ACATAATTTC	720
TGACCTACAG	AGGTGAGGGA	TCATATAGCT	CTTCAAGGAT	GCTGGTACTC	CCCTCACAAA	780
TTCATTTCTC	CTGTTGTAGT	GAAAGGTGCG	CCCTCTGGAG	CCTCCCAGGG	TGGGTGTGCA	840
GGTCACAATG	ATGAATGTAT	GATCGTGTTC	CCATTACCCA	AAGCCTTTAA	ATCCCTCATG	900
CTCAGTACAC	CAGGGCAGGT	CTAGCATTTC	TTCATTTAGT	GTATGCTGTC	CATTCATGCA	960
ACCACCTCAG	GACTCCTGGA	TTCTCTGCCT	AGTTGAGCTC	CTGCATGCTG	CCTCCTTGGG	1020
GAGGTGAGGG	AGAGGGCCCA	TGGTTCAATG	GGATCTGTGC	AGTTGTAACA	CATTAGGTGC	1080
TTAATAAACA	GAAGCTGTGA	TGTTAAAAAA	AAAAAAAA			1119

- (2) INFORMATION FOR SEQ ID NO:178:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 164 amino acids
    - (B) TYPE: amino acid

- (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: protein (vi) ORIGINAL SOURCE: (A) ORGANISM: Homo sapiens (xi) SEQUENCE DESCRIPTION: SEQ ID NO:178: Met Glu Asn Glu Leu Phe Cys Ser Gly Val Leu Val His Pro Gln Trp Val Leu Ser Ala Ala His Cys Phe Gln Asn Ser Tyr Thr Ile Gly Leu Gly Leu His Ser Leu Glu Ala Asp Gln Glu Pro Gly Ser Gln Met Val Glu Ala Ser Leu Ser Val Arg His Pro Glu Tyr Asn Arg Pro Leu Leu Ala Asn Asp Leu Met Leu Ile Lys Leu Asp Glu Ser Val Ser Glu Ser Asp Thr Ile Arg Ser Ile Ser Ile Ala Ser Gln Cys Pro Thr Ala Gly 85 Asn Ser Cys Leu Val Ser Gly Trp Gly Leu Leu Ala Asn Asp Ala Val 105 Ile Ala Ile Gln Ser Xaa Thr Val Gly Gly Trp Glu Cys Glu Lys Leu 115 Ser Gln Pro Trp Gln Gly Cys Thr Ile Ser Ala Thr Ser Ser Ala Arg Thr Ser Cys Cys Ile Leu Thr Gly Cys Ser Leu Leu Leu Thr Ala Ser 155 Pro Gly Thr Leu (2) INFORMATION FOR SEQ ID NO:179: (i) SEQUENCE CHARACTERISTICS:
- - - (A) LENGTH: 250 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: single
    - (D) TOPOLOGY: linear
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:179:

CTGGAGTGCC	TTGGTGTTTC	AAGCCCCTGC	AGGAAGCAGA	ATGCACCTTC	TGAGGCACCT	60
					TGTGATTGCT	120
					CTTCTGCTGA	180
					ACCCGAAAAA	240
ANDITCAIAI	CIGORGCCIO		•			250

#### (2) INFORMATION FOR SEQ ID NO:180:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 202 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear

#### (xi) SEQUENCE DESCRIPTION: SEQ ID NO:180:

ACTAGTCCAG TGTGGT	GGAA TTCCATTGTG	TTGGGCCCAA	CACAATGGCT	ACCTTTAACA	60
TCACCCAGAC CCCGCC	CCTG CCCGTGCCCC	ACGCTGCTGC	TAACGACAGT	ATGATGCTTA	120
CTCTGCTACT CGGAAA	CTAT TTTTATGTAA	TTAATGTATG	CTTTCTTGTT	TATAAATGCC	180
Ταρττταρά δαράρ	ΔΑΑΑ ΆΑ				202

#### (2) INFORMATION FOR SEQ ID NO:181:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 558 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:181:

TCCYTTTGKT NAGGTTTKKO	AGACAMCCCK	AGACCTWAAN	CTGTGTCACA	GACTTCYNGG	60
AATGTTTAGG CAGTGCTAGT					120
TTATTCCTCT TTCTTCTGA	GATTAATGAA	GTTGAAAATT	GAGGTGGATA	AATACAAAAA	180
GGTAGTGTGA TAGTATAAGT					240
AAATTATGCA AGTTAGTAAT	TACTCAGGGT	TAACTAAATT	ACTTTAATAT	GCTGTTGAAC	300
CTACTCTGTT CCTTGGCTAC					360
	TAAAAGTTGG				420
TTTTATTCCC AGGAATATGC					480
AAAAYCAGTT TTGGTWAATA	YGTWAATATG	TCMTAAATAA	ACAAKGCTTT	GACTTATTTC	540
САААААААА АААААААА					558

#### (2) INFORMATION FOR SEQ ID NO:182:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 479 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear

#### (xi) SEQUENCE DESCRIPTION: SEQ ID NO:182:

л Сласаситтк	СРССАТССТА	AGSCCCCRGA	RWTYGTTTGA	TCCAACCCTG	GCTTWTTTTC	60
ACACCCCAAA	ATCCCCCCTA	GAAGTTACAG	MSCATYTAGY	TGGTGCGMTG	GCACCCCTGG	120
CCTCACACAC	ACTCCCCACT	AGCTGGGACT	ACAGGCACAC	AGTCACTGAA	GCAGGCCCTG	180
		CTCCAACTTA				240
TTWGCAATTC	ACGITGCCAC	CCAGAAAAGG	CAACTICITC	ALAIGIGAIG	AGTACTTTCA	300
CTAAGGTTAA	ACTITCCCAC	CAGCCTCACT	VVCACTIAGAI	CVTCCCCCTT	CATACCAANT	360
						420
		AARTCTCTAT				479
AWTGSTGARA	AAATTAAAAT	GTTCTGGTTY	MACTTTAAAA	AKAAAAAAAA	AAAAAAAA	4/2

#### (2) INFORMATION FOR SEQ ID NO:183:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 384 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear

#### (xi) SEQUENCE DESCRIPTION: SEQ ID NO:183:

AGGCGGGAGC AGAAGCTAAA	GCCAAAGCCC	AAGAAGAGTG	GCAGTGCCAG	CACTGGTGCC	60
AGTACCAGTA CCAATAACAG					120
GGTGCCAGCC TGACCGCCAC					180
GCCAGCACCA GTGGCAGCTC					240
TGTTAATCCT GCCAGTCTTT					300
CAGCACTCTA GGCAGCCACT	ATCAATCAAT	TGAAGTTGAC	ACTCTGCATT	ARATCTATTT	360
GCCATTTCAA AAAAAAAAAA					384

#### (2) INFORMATION FOR SEQ ID NO:184:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 496 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:184:

ACCGAATTGG GA	CCGCTGGC '	TTATAAGCGA	TCATGTYYNT	CCRGTATKAC	CTCAACGAGC	60
AGGGAGATCG AG	TCTATACG	CTGAAGAAAT	TTGACCCGAT	GGGACAACAG	ACCTGCTCAG	120
CCCATCCTGC TC	GGTTCTCC	CCAGATGACA	AATACTCTSG	ACACCGAATC	ACCATCAAGA	180
AACGCTTCAA GG	TGCTCATG	ACCCAGCAAC	CGCGCCCTGT	CCTCTGAGGG	TCCCTTAAAC	240
TGATGTCTTT TC	TGCCACCT	GTTACCCCTC	GGAGACTCCG	TAACCAAACT	CTTCGGACTG	300
TGAGCCCTGA TG	CCTTTTTG	CCAGCCATAC	TCTTTGGCAT	CCAGTCTCTC	GTGGCGATTG	360
ATTATGCTTG TG	TGAGGCAA	TCATGGTGGC	ATCACCCATA	AAGGGAACAC	ATTTGACTTT	420
TTTTTCTCAT AT	TTTAAATT	ACTACMAGAW	TATTWMAGAW	WAAATGAWTT	GAAAAACTST	480
TAAAAAAAA AA						496

## (2) INFORMATION FOR SEQ ID NO:185:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 384 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:185:

GCTGGTAGCC	TATGGCGKGG	CCCACGGAGG	GGCTCCTGAG	GCCACGGRAC	AGTGACTTCC	60
CAAGTATCYT	GCGCSGCGTC	TTCTACCGTC	CCTACCTGCA	GATCTTCGGG	CAGATTCCCC	120
AGGAGGACAT	GGACGTGGCC	CTCATGGAGC	ACAGCAACTG	YTCGTCGGAG	CCCGGCTTCT	180
GGGCACACCC	TCCTGGGGCC	CAGGCGGGCA	CCTGCGTCTC	CCAGTATGCC	AACTGGCTGG	240
		TTCCTGCTCG				300
TTGCCATGTT	CAGTTACACA	TTCGGCAAAG	TACAGGGCAA	CAGCGATCTC	TACTGGGAAG	360

GCGCAGCGTT ACCGCCTCAT CCGG	384
(2) INFORMATION FOR SEQ ID NO:186:	
<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 577 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: single</li> <li>(D) TOPOLOGY: linear</li> </ul>	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:186:	
GAGTTAGCTC CTCCACAACC TTGATGAGGT CGTCTGCAGT GGCCTCTCGC TTCATACCGC	60
TNCCATCGTC ATACTGTAGG TTTGCCACCA CYTCCTGGCA TCTTGGGGCG GCNTAATATT	120
CCAGGAAACT CTCAATCAAG TCACCGTCGA TGAAACCTGT GGGCTGGTTC TGTCTTCCGC	180
TCGGTGTGAA AGGATCTCCC AGAAGGAGTG CTCGATCTTC CCCACACTTT TGATGACTTT	240
ATTGAGTCGA TTCTGCATGT CCAGCAGGAG GTTGTACCAG CTCTCTGACA GTGAGGTCAC	300
CAGCCCTATC ATGCCGTTGA MCGTGCCGAA GARCACCGAG CCTTGTGTGG GGGKKGAAGT	360
CTCACCCAGA TTCTGCATTA CCAGAGAGCC GTGGCAAAAG ACATTGACAA ACTCGCCCAG	420
GTGGAAAAAG AMCAMCTCCT GGARGTGCTN GCCGCTCCTC GTCMGTTGGT GGCAGCGCTW	480
TCCTTTTGAC ACACAAACAA GTTAAAGGCA TTTTCAGCCC CCAGAAANTT GTCATCATCC	540
AAGATNTCGC ACAGCACTNA TCCAGTTGGG ATTAAAT	577
(2) INFORMATION FOR SEQ ID NO:187:	

- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:187:
- AACATCTTCC TGTATAATGC TGTGTAATAT CGATCCGATN TTGTCTGSTG AGAATYCATW 60 ACTKGGAAAA GMAACATTAA AGCCTGGACA CTGGTATTAA AATTCACAAT ATGCAACACT 120 TTAAACAGTG TGTCAATCTG CTCCCYYNAC TTTGTCATCA CCAGTCTGGG AAKAAGGGTA 180 TGCCCTATTC ACACCTGTTA AAAGGGCGCT AAGCATTTTT GATTCAACAT CTTTTTTTT 240 GACACAAGTC CGAAAAAAGC AAAAGTAAAC AGTTATYAAT TTGTTAGCCA ATTCACTTTC 300 TTCATGGGAC AGAGCCATYT GATTTAAAAA GCAAATTGCA TAATATTGAG CTTYGGGAGC 360 TGATATTTGA GCGGAAGAGT AGCCTTTCTA CTTCACCAGA CACAACTCCC TTTCATATTG 420 GGATGTTNAC NAAAGTWATG TCTCTWACAG ATGGGATGCT TTTGTGGCAA TTCTGTTCTG 480 534 AGGATCTCCC AGTTTATTTA CCACTTGCAC AAGAAGGCGT TTTCTTCCTC AGGC
  - (2) INFORMATION FOR SEQ ID NO:188:
  - (i) SEQUENCE CHARACTERISTICS:

(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 534 base pairs

(B) TYPE: nucleic acid

(C) STRANDEDNESS: single
(D) TOPOLOGY: linear

- (A) LENGTH: 761 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:188:

AGAAACCAGT	ATCTCTNAAA	ACAACCTCTC	ATACCTTGTG	GACCTAATTT	TGTGTGCGTG	60
					AAAGCTTATG	

CCTCTTTGGT	ATCTATATCT	GTGAAAGTTT	TAATGATCTG	CCATAATGTC	TTGGGGACCT	180
TTGTCTTCTG	TGTAAATGGT	ACTAGAGAAA	ACACCTATNT	TATGAGTCAA	TCTAGTTNGT	240
TTTATTCGAC	ATGAAGGAAA	TTTCCAGATN	ACAACACTNA	CAAACTCTCC	CTKGACKARG	300
		CTGAMCATAA				360
		TGAARNACAG			WTTCTCCCTT	420
		TCCCGTTGAG			TATNATAAAA	480
		TNAAAGTGGT				540
		AATAAGCAGT				600
		AATTTCATTA				660
AIGCIIAAII						770
TTTTTCTGTN	TTCCCAGAGC	TGAGATNTTA	GATTTTATGT	AGTATNAAGT	GAAAAANTAC	720
GAAAATAATA	ACATTGAAGA	AAAANANAAA	AAANAAAAA	A		761

#### (2) INFORMATION FOR SEQ ID NO:189:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 482 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear

#### (xi) SEQUENCE DESCRIPTION: SEQ ID NO:189:

<del>, Ա. </del>	TTTGCCGATN	CTACTATTTT	ATTGCAGGAN	GTGGGGGTGT	ATGCACCGCA	60
CACCGGGGGCT	ATNAGAAGCA	AGAAGGAAGG	AGGGAGGCA	CAGCCCCTTG	CTGAGCAACA	120
AAGCCGCCTG	CTGCCTTCTC	TGTCTGTCTC	CTGGTGCAGG	CACATGGGGA	GACCTTCCCC	180
		AGGGGTGGGA				240
TGATAGGCAC	AGGCCACCCG	GTACAGACCC	CTCGGCTCCT	GACAGGTNGA	TTTCGACCAG	300
GTCATTGTGC	CCTGCCCAGG	CACAGCGTAN	ATCTGGAAAA	GACAGAATGC	TTTCCTTTTC	360
AAATTTGGCT	NGTCATNGAA	NGGGCANTTT	TCCAANTTNG	GCTNGGTCTT	GGTACNCTTG	420
GTTCGGCCCA	GCTCCNCGTC	CAAAAANTAT	TCACCCNNCT	CCNAATTGCT	TGCNGGNCCC	480
CC						482

## (2) INFORMATION FOR SEQ ID NO:190:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 471 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:190:

ተተጥተውተ	TTTTAAAACA	GTTTTTCACA	ACAAAATTTA	TTAGAAGAAT	AGTGGTTTTG	60
AAAACTCTCG	CATCCAGTGA	GAACTACCAT	ACACCACATT	ACAGCTNGGA	ATGTNCTCCA	120
AAAACICICO	CAAATGATAC	AATGGAACCA	TTCAATCTTA	CACATGCACG	AAAGAACAAG	180
CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC	ATACAATGCA		AGGGGGGGG	GACCACATGG	ATTAAAATTT	240
TRACTACTOR	TCACATACAT	TAAGACACAG	TTCTAGTCCA	GTCNAAAATC	AGAACTGCNT	300
TAAGIACICA	CARCETACCAL	ATCCAACCAA	ΔGΔΔCTTNAT	TGGTGATCAT	GANTNCTCTA	360
TGAAAAATTI	CHIGIAIGCA	GCCAGGAACN	ΑΛΑΛΩΤΤΝΙΔΑ	ANCACNONGT	ACAAAAANAA	420
CTACATCNAC	CTIGATCATI	CCGTACNGAA	AAAAAATIIT	TATACACTCC	C	471
TCTGTAATTN	ANTICAACCI	CCGIACNGAA	WWWINIINNI	ININCACICC	~	

## (2) INFORMATION FOR SEQ ID NO:191:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 402 base pairs
  - (B) TYPE: nucleic acid

(C) STRANDEDNESS: single

(D) TOPOLOGY: linear

#### (xi) SEQUENCE DESCRIPTION: SEQ ID NO:191:

GAGGGATTGA AGGTCTGTTC	TASTGTCGGM	CTGTTCAGCC	ACCAACTCTA	ACAAGTTGCT	60
GTCTTCCACT CACTGTCTGT	AAGCTTTTTA	ACCCAGACWG	TATCTTCATA	AATAGAACAA	120
ATTCTTCACC AGTCACATCT	TCTAGGACCT	TTTTGGATTC	AGTTAGTATA	AGCTCTTCCA	180
CTTCCTTTGT TAAGACTTCA	TCTGGTAAAG	TCTTAAGTTT	TGTAGAAAGG	AATTYAATTG	240
CTCGTTCTCT AACAATGTCC					300
CTTTGTGCAT CCATTTTAAA	TATACTTAAT	AGGGCATTGK	TNCACTAGGT	TAAATTCTGC	360
AAGAGTCATC TGTCTGCAAA	AGTTGCGTTA	GTATATCTGC	CA		402

#### (2) INFORMATION FOR SEQ ID NO:192:

#### (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 601 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:192:

GAGCTCGGAT	CCAATAATCT	TTGTCTGAGG	GCAGCACACA	TATNCAGTGC	CATGGNAACT	60
		AGCATGCCGT				120
ATGCYTYTTT	GAYTACCGTG	TGCCAAGTGC	TGGTGATTCT	YAACACACYT	CCATCCCGYT	180
CTTTTGTGGA	AAAACTGGCA	CTTKTCTGGA	ACTAGCARGA	CATCACTTAC	AAATTCACCC	240
ACGAGACACT	TGAAAGGTGT	AACAAAGCGA	YTCTTGCATT	GCTTTTTGTC	CCTCCGGCAC	300
CAGTTGTCAA	TACTAACCCG	CTGGTTTGCC	TCCATCACAT	TTGTGATCTG	TAGCTCTGGA	360
		AAGAACTTCT				420
TGTTGGATCA	GGTTCCCATT	TCCCAGTCYG	AATGTTCACA	TGGCATATTT	WACTTCCCAC	480
AAAACATTGC	GATTTGAGGC	TCAGCAACAG	CAAATCCTGT	TCCGGCATTG	GCTGCAAGAG	540
CCTCGATGTA	GCCGGCCAGC	GCCAAGGCAG	GCGCCGTGAG	CCCCACCAGC	AGCAGAAGCA	600
G						601

#### (2) INFORMATION FOR SEQ ID NO:193:

#### (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 608 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:193:

ATACAGCCCA	NATCCCACCA	CGAAGATGCG	CTTGTTGACT	GAGAACCTGA	TGCGGTCACT	60
GGTCCCGCTG	TAGCCCCAGC	GACTCTCCAC	CTGCTGGAAG	CGGTTGATGC	TGCACTCYTT	120
CCCAACGCAG	GCAGMAGCGG	GSCCGGTCAA	TGAACTCCAY	TCGTGGCTTG	GGGTKGACGG	180
		ACCACCTCGC				240
		GGTCATGAGC				300
		TGGCGTCACC				360
		TGAACAGCCG				420
		CCAGGTCAAT				480
		TTCTCCAGGC				540
		ATGAAGGCGT				600

608 CACGCAAT (2) INFORMATION FOR SEQ ID NO:194: (i) SEOUENCE CHARACTERISTICS: (A) LENGTH: 392 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:194: GAACGGCTGG ACCTTGCCTC GCATTGTGCT TGCTGGCAGG GAATACCTTG GCAAGCAGYT CCAGTCCGAG CAGCCCCAGA CCGCTGCCGC CCGAAGCTAA GCCTGCCTCT GGCCTTCCCC 120 TCCGCCTCAA TGCAGAACCA GTAGTGGGAG CACTGTGTTT AGAGTTAAGA GTGAACACTG 180 TTTGATTTTA CTTGGGAATT TCCTCTGTTA TATAGCTTTT CCCAATGCTA ATTTCCAAAC 240 AACAACAACA AAATAACATG TTTGCCTGTT AAGTTGTATA AAAGTAGGTG ATTCTGTATT 300 TAAAGAAAAT ATTACTGTTA CATATACTGC TTGCAATTTC TGTATTTATT GKTNCTSTGG 360 392 AAATAAATAT AGTTATTAAA GGTTGTCANT CC (2) INFORMATION FOR SEQ ID NO:195: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 502 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:195: CCSTTKGAGG GGTKAGGKYC CAGTTYCCGA GTGGAAGAAA CAGGCCAGGA GAAGTGCGTG CCGAGCTGAG GCAGATGTTC CCACAGTGAC CCCCAGAGCC STGGGSTATA GTYTCTGACC 120 CCTCNCAAGG AAAGACCACS TTCTGGGGAC ATGGGCTGGA GGGCAGGACC TAGAGGCACC 180 AAGGGAAGGC CCCATTCCGG GGSTGTTCCC CGAGGAGGAA GGGAAGGGGC TCTGTGTGCC 240 CCCCASGAGG AAGAGGCCCT GAGTCCTGGG ATCAGACACC CCTTCACGTG TATCCCCACA 300 CAAATGCAAG CTCACCAAGG TCCCCTCTCA GTCCCCTTCC STACACCCTG AMCGGCCACT 360 GSCSCACACC CACCCAGAGC ACGCCACCCG CCATGGGGAR TGTGCTCAAG GARTCGCNGG 420 GCARCGTGGA CATCTNGTCC CAGAAGGGGG CAGAATCTCC AATAGANGGA CTGARCMSTT 480 502 GCTNANAAAA AAAAANAAAA AA (2) INFORMATION FOR SEQ ID NO:196: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 665 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:196: GGTTACTTGG TTTCATTGCC ACCACTTAGT GGATGTCATT TAGAACCATT TTGTCTGCTC 60 CCTCTGGAAG CCTTGCGCAG AGCGGACTTT GTAATTGTTG GAGAATAACT GCTGAATTTT 120

WAGCTGTTTK GAGTTGATTS GCACCACTGC ACCCACAACT TCAATATGAA AACYAWTTGA

ACTWATTTAT TATCTTGTGA AAAGTATAAC AATGAAAATT TTGTTCATAC TGTATTKATC

AAGTATGATG AAAAGCAAWA GATATATATT CTTTTATTAT GTTAAATTAT GATTGCCATT

180

240

300

ATTAATCGGC	AAAATGTGGA	GTGTATGTTC	TTTTCACAGT	AATATATGCC	TTTTGTAACT	360
TCACTTGGTT	ATTTTATTGT	AAATGARTTA	CAAAATTCTT	AATTTAAGAR	AATGGTATGT	420
TTATTTATA	TCATTAATTT	CTTTCCTKGT	TTACGTWAAT	TTTGAAAAGA	WTGCATGATT	480
TCTTGACAGA	AATCGATCTT	GATGCTGTGG	AAGTAGTTTG	ACCCACATCC	CTATGAGTTT	540
TTCTTAGAAT	GTATAAAGGT	TGTAGCCCAT	CNAACTTCAA	AGAAAAAAAT	GACCACATAC	600
TTTGCAATCA	GGCTGAAATG	TGGCATGCTN	TTCTAATTCC	AACTTTATAA	ACTAGCAAAN	660
AAGTG						665

#### (2) INFORMATION FOR SEQ ID NO:197:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 492 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear

#### (xi) SEQUENCE DESCRIPTION: SEQ ID NO:197:

TTTTNTTTTT	TTTTTTTTGC	AGGAAGGATT	CCATTTATTG	TGGATGCATT	TTCACAATAT	60
ATGTTTATTG	GAGCGATCCA	TTATCAGTGA	AAAGTATCAA	GTGTTTATAA	NATTTTTAGG	120
AAGGCAGATT	CACAGAACAT	GCTNGTCNGC	TTGCAGTTTT	ACCTCGTANA	GATNACAGAG	180
AATTATAGTC	NAACCAGTAA	ACNAGGAATT	TACTTTTCAA	AAGATTAAAT	CCAAACTGAA	240
CAAAATTCTA	CCCTGAAACT	TACTCCATCC	AAATATTGGA	ATAANAGTCA	GCAGTGATAC	300
ATTCTCTTCT	GAACTTTAGA	TTTTCTAGAA	AAATATGTAA	TAGTGATCAG	GAAGAGCTCT	360
TGTTCAAAAG	TACAACNAAG	CAATGTTCCC	TTACCATAGG	CCTTAATTCA	AACTTTGATC	420
CATTTCACTC	CCATCACGGG	AGTCAATGCT	ACCTGGGACA	CTTGTATTTT	GTTCATNCTG	480
ANCNTGGCTT	AA					492

- (2) INFORMATION FOR SEQ ID NO:198:
- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 478 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:198:

TTTNTTTTGN	ATTTCANTCT	GTANNAANTA	TTTTCATTAT	GTTTATTANA	AAAATATNAA	60
TGTNTCCACN	ACAAATCATN	TTACNTNAGT	AAGAGGCCAN	CTACATTGTA	CAACATACAC	120
TGAGTATATT	TTGAAAAGGA	CAAGTTTAAA	GTANACNCAT	ATTGCCGANC	ATANCACATT	180
TATACATGGC	TTGATTGATA	TTTAGCACAG	CANAAACTGA	GTGAGTTACC	AGAAANAAAT	240
NATATATGTC	AATCNGATTT	AAGATACAAA	ACAGATCCTA	TGGTACATAN	CATCNTGTAG	300
GAGTTGTGGC	TTTATGTTTA	CTGAAAGTCA	ATGCAGTTCC	TGTACAAAGA	GATGGCCGTA	360
AGCATTCTAG	TACCTCTACT	CCATGGTTAA	GAATCGTACA	CTTATGTTTA	CATATGTNCA	420
GGGTAAGAAT	TGTGTTAAGT	NAANTTATGG	AGAGGTCCAN	GAGAAAAATT	TGATNCAA	478

- (2) INFORMATION FOR SEQ ID NO:199:
- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 482 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear

#### (xi) SEQUENCE DESCRIPTION: SEQ ID NO:199:

AGTGACTTGT CCTCCAACAA	AACCCCTTGA	TCAAGTTTGT	GGCACTGACA	ATCAGACCTA	60
TGCTAGTTCC TGTCATCTAT	TCGCTACTAA	ATGCAGACTG	GAGGGGACCA	AAAAGGGGCA	120
TCAACTCCAG CTGGATTATT	TTGGAGCCTG	CAAATCTATT	CCTACTTGTA	CGGACTTTGA	180
AGTGATTCAG TTTCCTCTAC	GGATGAGAGA	CTGGCTCAAG	AATATCCTCA	TGCAGCTTTA	240
TGAAGCCNAC TCTGAACACG					300
AAATTTACCT GGANGAAAAG					360
ANGGACTTTA AGAANAAACT	ACCACATGTN	TGTNGTATCC	TGGTGCCNGG	CCGTTTANTG	420
AACNTNGACN NCACCCTTNT	GGAATANANT	CTTGACNGCN	TCCTGAACTT	GCTCCTCTGC	480
GA					482

#### (2) INFORMATION FOR SEQ ID NO:200:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 270 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:200:

CGGCCGCAAG TGCAACTCCA	GCTGGGGCCG	TGCGGACGAA	GATTCTGCCA	GCAGTTGGTC	60
CGACTGCGAC GACGGCGCG	GCGACAGTCG	CAGGTGCAGC	GCGGGCGCCT	GGGGTCTTGC	120
AAGGCTGAGC TGACGCCGCA	GAGGTCGTGT	CACGTCCCAC	GACCTTGACG	CCGTCGGGGA	180
CAGCCGGAAC AGAGCCCGGT	GAANGCGGGA	GGCCTCGGGG	AGCCCCTCGG	GAAGGGCGGC	240
CCGAGAGATA CGCAGGTGCA					270

## (2) INFORMATION FOR SEQ ID NO:201:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 419 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:201:

<b>ተተ</b> ተተተተተተተ	TTTTGGAATC	TACTGCGAGC	ACAGCAGGTC	AGCAACAAGT	TTATTTTGCA	60
GCTAGCAAGG	TAACAGGGTA	GGGCATGGTT	ACATGTTCAG	GTCAACTTCC	TTTGTCGTGG	120
TTGATTGGTT	TGTCTTTATG	GGGGCGGGGT	GGGGTAGGGG	AAANCGAAGC	ANAANTAACA	180
TGGAGTGGGT	GCACCCTCCC	TGTAGAACCT	GGTTACNAAA	GCTTGGGGCA	GTTCACCTGG	240
TCTGTGACCG	TCATTTTCTT	GACATCAATG	TTATTAGAAG	TCAGGATATC	TTTTAGAGAG	300
TCCACTGTNT	CTGGAGGGAG	ATTAGGGTTT	CTTGCCAANA	TCCAANCAAA	ATCCACNTGA	360
AAAAGTTGGA	TGATNCANGT	ACNGAATACC	GANGGCATAN	TTCTCATANT	CGGTGGCCA	419

## (2) INFORMATION FOR SEQ ID NO:202:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 509 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:202:

TTTNTTTTTT	TTTTTTTTT	TTTTTTTTT	TTTTTTTTT	TTTTTTTTT	TTTTTTTTT	60
TGGCACTTAA	TCCATTTTTA	TTTCAAAATG	TCTACAAANT	TTNAATNCNC	CATTATACNG	120
GTNATTTTNC	AAAATCTAAA	NNTTATTCAA	ATNTNAGCCA	AANTCCTTAC	NCAAATNNAA	180
TACNCNCAAA	AATCAAAAAT	ATACNTNTCT	TTCAGCAAAC	TTNGTTACAT	AAATTAAAA	240
AATATATACG	GCTGGTGTTT	TCAAAGTACA	ATTATCTTAA	CACTGCAAAC	ATNTTTNNAA	300
GGAACTAAAA	TAAAAAAAA	CACTNCCGCA	AAGGTTAAAG	GGAACAACAA	ATTCNTTTTA	360
			AAATCTTAGG			420
GGATCTTAAC	TTTTACTNCA	CTTTGTTTAT	TTTTTTANAA	CCATTGTNTT	GGGCCCAACA	480
CAATGGNAAT	NCCNCCNCNC	TGGACTAGT				509

#### (2) INFORMATION FOR SEQ ID NO:203:

#### (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 583 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

#### (xi) SEQUENCE DESCRIPTION: SEQ ID NO:203:

TTTTTTTTT	TTTTTTTGA	CCCCCTCTT	ATAAAAAACA	AGTTACCATT	TTATTTTACT	60
TACACATATT	TATTTTATAA	TTGGTATTAG	ATATTCAAAA	GGCAGCTTTT	AAAATCAAAC	120
TAAATGGAAA	CTGCCTTAGA	TACATAATTC	TTAGGAATTA	GCTTAAAATC	TGCCTAAAGT	180
GAAAATCTTC	TCTAGCTCTT	TTGACTGTAA	ATTTTTGACT	CTTGTAAAAC	ATCCAAATTC	240
ATTTTTCTTG	TCTTTAAAAT	TATCTAATCT	TTCCATTTTT	TCCCTATTCC	AAGTCAATTT	300
GCTTCTCTAG	CCTCATTTCC	TAGCTCTTAT	CTACTATTAG	TAAGTGGCTT	TTTTCCTAAA	360
AGGGAAAACA	GGAAGAGANA	ATGGCACACA	AAACAAACAT	TTTATATTCA	TATTTCTACC	420
TACGTTAATA	AAATAGCATT	TTGTGAAGCC	AGCTCAAAAG	AAGGCTTAGA	TCCTTTTATG	480
TCCATTTTAG	TCACTAAACG	ATATCNAAAG	TGCCAGAATG	CAAAAGGTTT	GTGAACATTT	540
ATTCAAAAGC	TAATATAAGA	TATTTCACAT	ACTCATCTTT	CTG		583

## (2) INFORMATION FOR SEQ ID NO:204:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 589 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:204:

TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT	TTTTTTTTTT	TTTTTTNCTC	TTCTTTTTT	TTGANAATGA	GGATCGAGTT	60
			CTCATCTTTC			120
			AAACTAATGA			180
TGAAGGAAAT	CTGTTCATTC	TTCTCATTCA	TATAGTTATA	TCAAGTACTA	CCTTGCATAT	240
TGAGAGGTTT	TTCTTCTCTA	TTTACACATA	TATTTCCATG	TGAATTTGTA	TCAAACCTTT	300
ATTTTCATGC	AAACTAGAAA	ATAATGTNTT	CTTTTGCATA	AGAGAAGAGA	ACAATATNAG	360
CATTACAAAA	CTGCTCAAAT	TGTTTGTTAA	GNTTATCCAT	TATAATTAGT	TNGGCAGGAG	420
			TAATAAAACT			480
AAAATAATTA	AAGGAACATT	TTTAGCCTGG	GTATAATTAG	CTAATTCACT	TTACAAGCAT	540
TTATTNAGAA	TGAATTCACA	TGTTATTATT	CCNTAGCCCA	ACACAATGG		589

### (2) INFORMATION FOR SEQ ID NO:205:

#### (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 545 base pairs(B) TYPE: nucleic acid

(C) STRANDEDNESS: single

(D) TOPOLOGY: linear

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:205:

ւր Մարդ Մարդուրդ	TTTTTTCAGT	AATAATCAGA	ACAATATTTA	${\tt TTTTTATATT}$	TAAAATTCAT	60
AGAAAAGTGC	CTTACATTTA	ATAAAAGTTT	GTTTCTCAAA	GTGATCAGAG	GAATTAGATA	120
TNGTCTTGAA	CACCAATATT	AATTTGAGGA	AAATACACCA	AAATACATTA	AGTAAATTAT	180
TTAAGATCAT	AGAGCTTGTA	AGTGAAAAGA	TAAAATTTGA	CCTCAGAAAC	TCTGAGCATT	240
AAAAATCCAC	TATTAGCAAA	TAAATTACTA	TGGACTTCTT	GCTTTAATTT	TGTGATGAAT	300
ATGGGGTGTC	ACTGGTAAAC	CAACACATTC	TGAAGGATAC	ATTACTTAGT	GATAGATTCT	360
TATGTACTTT	GCTANATNAC	GTGGATATGA	GTTGACAAGT	TTCTCTTTCT	TCAATCTTTT	420
AAGGGGCNGA	NGAAATGAGG	AAGAAAAGAA	AAGGATTACG	CATACTGTTC	TTTCTATNGG	480
AAGGATTAGA	TATGTTTCCT	TTGCCAATAT	TAAAAAAATA	ATAATGTTTA	CTACTAGTGA	540
AACCC						545

## (2) INFORMATION FOR SEQ ID NO:206:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 487 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:206:

TTTTTTTTTT	րը ՃՐԻՐ ՀՐԻՐ	ΔAGTTTCTNA	TTTTTATTAT	AATTAAAGTC	TTGGTCATTT	60
CATTTATTAG		TACATATTTA	ΔΑΤΤΔΔΑGΑΑ	ACGTTNTTAG	ACAACTGTNA	120
CATTTATTAG	CTCTGCAACT	IACAIAIIIA	CTANATATAT	TCCTCCAAGA	GTGGATGTGT	180
CAATTTATAA	ATGTAAGGTG	CCATTAITGA	GIANAIAIAI	አ ጥጥጥጥ አጥጥልር	ТАСАТИАТАС	240
CCCTTCTCCC	ACCAACTAAT	GAANCAGCAA	CATTAGTTIA	ATTITATIO	TATCTCTCAC	300
ACTGCTGCAA	ACGCTAATTC	TCTTCTCCAT	CCCCATGING	ATATIGIGIA	COMMOGGGGG	360
TTGGTNAGAA	TGCATCANCA	ATCTNACAAT	CAACAGCAAG	ATGAAGCTAG	GCNTGGGC11	
TCCCTCAAAA	TAGACTGTGT	CTGTCTGAAT	CAAATGATCT	GACCTATCCT	CGGTGGCAAG	420
AACTCTTCGA	ACCGCTTCCT	CAAAGGCNGC	TGCCACATTT	GTGGCNTCTN	TTGCACTTGT	480
	Accourteer	0.22.0				487
TTCAAAA						

## (2) INFORMATION FOR SEQ ID NO:207:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 332 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:207:

ΔͲͲͲͲͳΑΝΑΑ	CTAGCAACTC	TTATTTCTTT	CCTTTAAAAA	60
AUCCUS TOTAL	AAGACCTGAC	AGCTTGAGAA	GGTCACTACT	120
AICCIAITIA	AMONCO TONO	A A NUTCTICA CA	ATCCTTGANA	180
TGGTTCTGCT	GTTACNTTIG	MANICIGACA	ACCTION.	240
TAAAAGGTAT	TGGATTTTCA	CAGAGGAANA	ACACAGCGCA	
ACTGAGCTTG	TCCACTGGAG	GGCTCATGGG	TGGGACATGG	300
	ATCCTATTTA TGGTTCTGCT TAAAAGGTAT	ATCCTATTTA AAGACCTGAC TGGTTCTGCT GTTACNTTTG TAAAAGGTAT TGGATTTCA	ATCCTATTTA AAGACCTGAC AGCTTGAGAA TGGTTCTGCT GTTACNTTTG AANTCTGACA TAAAAGGTAT TGGATTTTCA CAGAGGAANA	ATTTTTANAA CTAGCAACTC TTATTTCTTT CCTTTAAAAA ATCCTATTTA AAGACCTGAC AGCTTGAGAA GGTCACTACT TGGTTCTGCT GTTACNTTTG AANTCTGACA ATCCTTGANA TAAAAGGTAT TGGATTTTCA CAGAGGAANA ACACAGCGCA ACTGAGCTTG TCCACTGGAG GGCTCATGGG TGGGACATGG

AAAAGAAGGC AGCCTAGGCC CTGGGGAGCC CA	332
(2) INFORMATION FOR SEQ ID NO:208:	
<ul><li>(i) SEQUENCE CHARACTERISTICS:</li><li>(A) LENGTH: 524 base pairs</li><li>(B) TYPE: nucleic acid</li><li>(C) STRANDEDNESS: single</li><li>(D) TOPOLOGY: linear</li></ul>	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:208:	
AGGGCGTGGT GCGGAGGGCG TTACTGTTTT GTCTCAGTAA CAATAAATAC AAAAAGACTG GTTGTGTTCC GGCCCCATCC AACCACGAAG TTGATTTCTC TTGTGTGCAG AGTGACTGAT TTTAAAGGAC ATGGAGCTTG TCACAATGTC ACAATGTCAC AGTGTGAAGG GCACACTCAC TCCCGCGTGA TTCACATTTA GCAACCAACA ATAGCTCATG AGTCCATACT TGTAAATACT TTTGGCAGAA TACTTNTTGA AACTTGCAGA TGATAACTAA GATCCAAGAT ATTTCCCAAA GTAAATAGAA GTGGGTCATA ATATTAATTA CCTGTTCACA TCAGCTTCCA ATGAGCCCAG ACACTGACAT CAAACTAAGC CCACTTAGAC TCCTCACCAC CAGTCTGTCC TGTCATCAGA CAGGAGGCTG TCACCTTGAC CAAATTCTCA CCAGTCAATC ATCTATCCAA AAACCATTAC CTGATCCACT TCCGGTAATG CACCACCTTG GTGA	60 120 180 240 300 360 420 480 524
(2) INFORMATION FOR SEQ ID NO:209:	
<ul><li>(i) SEQUENCE CHARACTERISTICS:</li><li>(A) LENGTH: 159 base pairs</li><li>(B) TYPE: nucleic acid</li><li>(C) STRANDEDNESS: single</li><li>(D) TOPOLOGY: linear</li></ul>	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:209:	
GGGTGAGGAA ATCCAGAGTT GCCATGGAGA AAATTCCAGT GTCAGCATTC TTGCTCCTTG TGGCCCTCTC CTACACTCTG GCCAGAGATA CCACAGTCAA ACCTGGAGCC AAAAAGGACA CAAAGGACTC TCGACCCAAA CTGCCCCAGA CCCTCTCCA	60 120 159
(2) INFORMATION FOR SEQ ID NO:210:	
<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 256 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: single</li> <li>(D) TOPOLOGY: linear</li> </ul>	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:210:	
ACTCCCTGGC AGACAAAGGC AGAGGAGAGA GCTCTGTTAG TTCTGTGTTG TTGAACTGCC ACTGAATTTC TTTCCACTTG GACTATTACA TGCCANTTGA GGGACTAATG GAAAAACGTA TGGGGAGATT TTANCCAATT TANGTNTGTA AATGGGGAGA CTGGGGCAGG CGGGAGAGAT TTGCAGGGTG NAAATGGAN GGCTGGTTTG TTANATGAAC AGGGACATAG GAGGTAGGCA	60 120 180 240 256

# (2) INFORMATION FOR SEQ ID NO:211:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 264 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:211:

ACATTGTTTT TTTGAGATAA	AGCATTGAGA	GAGCTCTCCT	TAACGTGACA	CAATGGAAGG	60
ACTGGAACAC ATACCCACAT					120
ATATTCAAGC ACATATGTTA					180
GGGGAGATAC ATTCNGAAAG					240
AAAAAAGGAG CAAATGAGAA		+			264

- (2) INFORMATION FOR SEQ ID NO:212:
- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 328 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:212:

ACCCAAAAAT	CCAATGCTGA	ATATTTGGCT	TCATTATTCC	CANATTCTTT	GATTGTCAAA	60
GGATTTAATG	TTGTCTCAGC	TTGGGCACTT	CAGTTAGGAC	CTAAGGATGC	CAGCCGGCAG	120
GTTTATATAT	CCACCAACAA	TATTCAACCG	CGACAACAGG	TTATTGAACT	TGCCCGCCAG	180
TTNAATTTCA	GCAGCAACAA	CERTCANGO	THE TOTAL CARCAC	CCAGAGAGAT	Ταδδδδτήτδ	240
TTNAATTTCA	TTCCCATTGA	CTTGGGATCC	TIAICAICAG	CCAGAGAGAI	COMMITTIE	300
CCCCTACNAC	TCTTTACTCT	CTGGANAGGG	CCAGTGGTGG	TAGCTATAAG	CIIGGCCACA	• • •
TTTTTTTTC	CTTTATTCCT	TTGTCAGA				328

- (2) INFORMATION FOR SEQ ID NO:213:
- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 250 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:213:

ACTTATGAGC	AGAGCGACAT	ATCCNAGTGT	AGACTGAATA	AAACTGAATT	CTCTCCAGTT	60
TANACCATTC	CTCACTGAAG	GGATAGAAGT	GACTGCCAGG	AGGGAAAGTA	AGCCAAGGCT	120
CAMMAGCATIG	AACCANIATAT	ACATTTCAAT	ΨΟΨΟΟΔΑΑΟΨ	TCTTCCTCAT	TCCAAGAGTT	180
CATTATGCCA	AAGGANATAT	ACATITCAMI	CAMCOUNTAIN	አአሮአአአጥአጥር	TCTCTNACCT	240
TTCAATATTT	GCATGAACCT	GCTGATAANC	CATGITAANA	AACAAATATC	ICICINACCI	250
TCTCATCGGT						250

- (2) INFORMATION FOR SEQ ID NO:214:
- (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 444 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:214: ACCCAGAATC CAATGCTGAA TATTTGGCTT CATTATTCCC AGATTCTTTG ATTGTCAAAG 60 GATTTAATGT TGTCTCAGCT TGGGCACTTC AGTTAGGACC TAAGGATGCC AGCCGGCAGG 120 TTTATATATG CAGCAACAAT ATTCAAGCGC GACAACAGGT TATTGAACTT GCCCGCCAGT 180 240 TGAATTTCAT TCCCATTGAC TTGGGATCCT TATCATCAGC CANAGAGATT GAAAATTTAC CCCTACGACT CTTTACTCTC TGGAGAGGGC CAGTGGTGGT AGCTATAAGC TTGGCCACAT 300 TTTTTTTCC TTTATTCCTT TGTCAGAGAT GCGATTCATC CATATGCTAN AAACCAACAG 360 AGTGACTTTT ACAAAATTCC TATAGANATT GTGAATAAAA CCTTACCTAT AGTTGCCATT 420 444 ACTTTGCTCT CCCTAATATA CCTC (2) INFORMATION FOR SEQ ID NO:215: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 366 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:215: ACTTATGAGC AGAGCGACAT ATCCAAGTGT ANACTGAATA AAACTGAATT CTCTCCAGTT 60 TAAAGCATTG CTCACTGAAG GGATAGAAGT GACTGCCAGG AGGGAAAGTA AGCCAAGGCT 120 CATTATGCCA AAGGANATAT ACATTTCAAT TCTCCAAACT TCTTCCTCAT TCCAAGAGTT 180 TTCAATATTT GCATGAACCT GCTGATAAGC CATGTTGAGA AACAAATATC TCTCTGACCT 240 TCTCATCGGT AAGCAGAGGC TGTAGGCAAC ATGGACCATA GCGAANAAAA AACTTAGTAA 300 TCCAAGCTGT TTTCTACACT GTAACCAGGT TTCCAACCAA GGTGGAAATC TCCTATACTT 360 366 GGTGCC (2) INFORMATION FOR SEQ ID NO:216: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 260 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:216: CTGTATAAAC AGAACTCCAC TGCANGAGGG AGGGCCGGGC CAGGAGAATC TCCGCTTGTC 60
  - (2) INFORMATION FOR SEQ ID NO:217:

AATTCTTCCT TCCCTCCTTT

CAAGACAGGG GCCTAAGGAG GGTCTCCACA CTGCTNNTAA GGGCTNTTNC ATTTTTTTAT

TAATAAAAAG TNNAAAAGGC CTCTTCTCAA CTTTTTTCCC TTNGGCTGGA AAATTTAAAA

ATCAAAAATT TCCTNAAGTT NTCAAGCTAT CATATATACT NTATCCTGAA AAAGCAACAT

120

180

240 260

<ul><li>(i) SEQUENCE CHARACTERISTICS:</li><li>(A) LENGTH: 262 base pairs</li><li>(B) TYPE: nucleic acid</li><li>(C) STRANDEDNESS: single</li><li>(D) TOPOLOGY: linear</li></ul>	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:217:	
ACCTACGTGG GTAAGTTTAN AAATGTTATA ATTTCAGGAA NAGGAACGCA TATAATTGTA TCTTGCCTAT AATTTCTAT TTTAATAAGG AAATAGCAAA TTGGGGTGGG GGGAATGTAG GGCATTCTAC AGTTTGAGCA AAATGCAATT AAATGTGGAA GGACAGCACT GAAAAATTTT ATGAATAATC TGTATGATTA TATGTCTCTA GAGTAGATTT ATAATTAGCC ACTTACCCTA ATATCCTTCA TGCTTGTAAA GT	60 120 180 240 262
(2) INFORMATION FOR SEQ ID NO:218:	
<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 205 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: single</li> <li>(D) TOPOLOGY: linear</li> <li>(ii) MOLECULE TYPE: cDNA</li> </ul>	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:218:	
ACCAAGGTGG TGCATTACCG GAANTGGATC AANGACACCA TCGTGGCCAA CCCCTGAGCA CCCCTATCAA CTCCCTTTTG TAGTAAACTT GGAACCTTGG AAATGACCAG GCCAAGACTC AGGCCTCCCC AGTTCTACTG ACCTTTGTCC TTANGTNTNA NGTCCAGGGT TGCTAGGAAA ANAAATCAGC AGACACAGGT GTAAA	60 120 180 205
(2) INFORMATION FOR SEQ ID NO:219:	
<ul><li>(i) SEQUENCE CHARACTERISTICS:</li><li>(A) LENGTH: 114 base pairs</li><li>(B) TYPE: nucleic acid</li><li>(C) STRANDEDNESS: single</li><li>(D) TOPOLOGY: linear</li></ul>	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:219:	
TACTGTTTTG TCTCAGTAAC AATAAATACA AAAAGACTGG TTGTGTTCCG GCCCCATCCA ACCACGAAGT TGATTTCTCT TGTGTGCAGA GTGACTGATT TTAAAGGACA TGGA	60 114
(2) INFORMATION FOR SEQ ID NO:220:	
<ul><li>(i) SEQUENCE CHARACTERISTICS:</li><li>(A) LENGTH: 93 base pairs</li><li>(B) TYPE: nucleic acid</li><li>(C) STRANDEDNESS: single</li><li>(D) TOPOLOGY: linear</li></ul>	

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:220:	
ACTAGCCAGC ACAAAAGGCA GGGTAGCCTG AATTGCTTTC TGCTCTTTAC ATTTCTTTTA AAATAAGCAT TTAGTGCTCA GTCCCTACTG AGT	60 93
(2) INFORMATION FOR SEQ ID NO:221:	
(i) SEQUENCE CHARACTERISTICS:	
(A) LENGTH: 167 base pairs	
(B) TYPE: nucleic acid	
(C) STRANDEDNESS: single (D) TOPOLOGY: linear	
(b) Topologi. Timear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:221:	
ACTANGTGCA GGTGCGCACA AATATTTGTC GATATTCCCT TCATCTTGGA TTCCATGAGG	60
TCTTTTGCCC AGCCTGTGGC TCTACTGTAG TAAGTTTCTG CTGATGAGGA GCCAGNATGC	120
CCCCCACTAC CTTCCCTGAC GCTCCCCANA AATCACCCAA CCTCTGT	167
(2) INFORMATION FOR SEQ ID NO:222:	
(i) SEQUENCE CHARACTERISTICS:	
(A) LENGTH: 351 base pairs	
(B) TYPE: nucleic acid	
(C) STRANDEDNESS: single	
(D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:222:	
AGGGCGTGGT GCGGAGGGCG GTACTGACCT CATTAGTAGG AGGATGCATT CTGGCACCCC	60
GTTCTTCACC TGTCCCCCAA TCCTTAAAAG GCCATACTGC ATAAAGTCAA CAACAGATAA	120
ATGTTTGCTG AATTAAAGGA TGGATGAAAA AAATTAATAA TGAATTTTTG CATAATCCAA	180
TTTTCTCTTT TATATTTCTA GAAGAAGTTT CTTTGAGCCT ATTAGATCCC GGGAATCTTT	240 300
TAGGTGAGCA TGATTAGAGA GCTTGTAGGT TGCTTTTACA TATATCTGGC ATATTTGAGT CTCGTATCAA AACAATAGAT TGGTAAAGGT GGTATTATTG TATTGATAAG T	351
CICGTATCAA AACAATAGAT IGGTAAAGGT GGTATTATTG TATTGATAAG T	
(2) INFORMATION FOR SEQ ID NO:223	
(i) SEQUENCE CHARACTERISTICS:	
(A) LENGTH: 383 base pairs	
(B) TYPE: nucleic acid	
(C) STRANDEDNESS: single (D) TOPOLOGY: linear	
(b) TOPOBOGI: Timeat	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:223:	
AAAACAAACA AACAAAAAAA ACAATTCTTC ATTCAGAAAA ATTATCTTAG GGACTGATAT	60
TGGTAATTAT GGTCAATTTA ATWRTRTTKT GGGGCATTTC CTTACATTGT CTTGACAAGA	120 180
TTAAAATGTC TGTGCCAAAA TTTTGTATTT TATTTGGAGA CTTCTTATCA AAAGTAATGC TGCCAAAGGA AGTCTAAGGA ATTAGTAGTG TTCCCMTCAC TTGTTTGGAG TGTGCTATTC	240
TGCCAAAGGA AGTCTAAGGA ATTAGTAGTG TTCCCMTCAC TIGITIGGAG IGIGCIATIC TAAAAGATTT TGATTTCCTG GAATGACAAT TATATTTTAA CTTTGGTGGG GGAAANAGTT	300
ATAGGACCAC AGTCTTCACT TCTGATACTT GTAAATTAAT CTTTTATTGC ACTTGTTTTG	360
ACCATTANGC TATATGTTTA AAA	383

## (2) INFORMATION FOR SEQ ID NO:224

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 320 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:224

CCCCTGAAGG CT AAAAGTTTGT GA GGATACATGG TT	CATTGTAG AAAGGATA	TAGGGAGTGT RAAGGGCAAT	GTACCCCTTA ATTTTATCAT	CTCCCCATCA ATGTTCTAAA	AAAAAAAAAT AGAGAAGGAA	60 120 180 240
GAGAAAATAC TA AAATGTGGCC GT TTTARACTCM GC	CCATCCTC					300 320